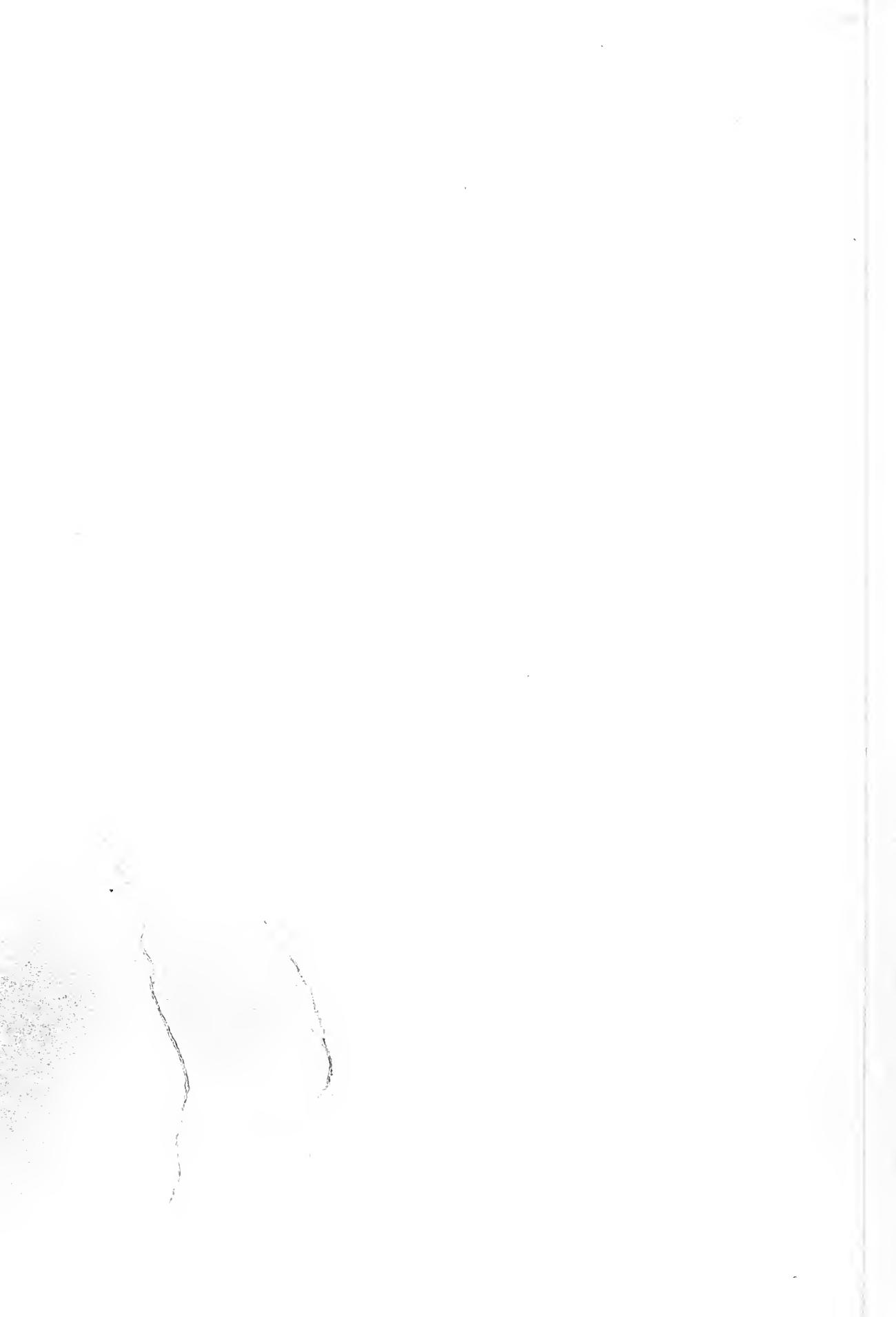


Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



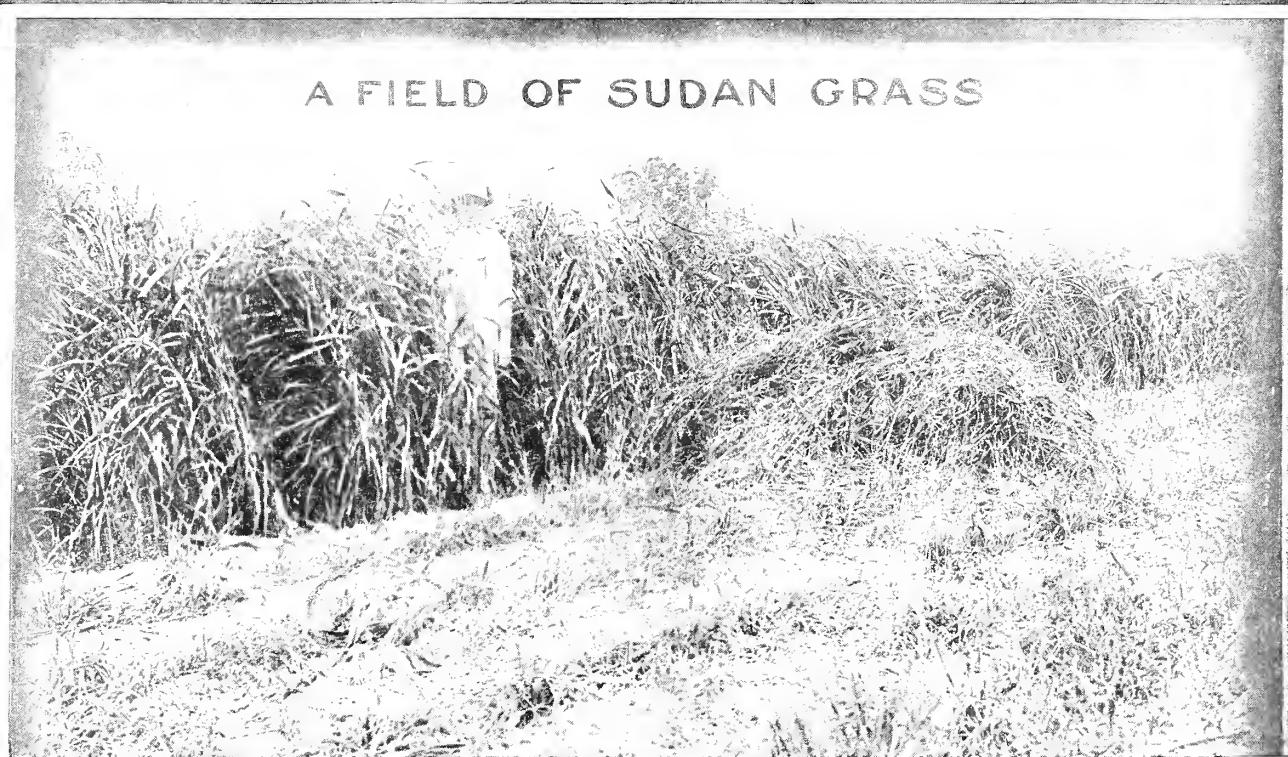
CHOICE IOWA SEEDS

54TH ANNUAL
CATALOGUE



OF 1919

A FIELD OF SUDAN GRASS



SEEDSMEN

TO THE

AMERICAN

PEOPLE

IOWA SEED CO.
DES MOINES, IOWA, U.S.A.

MAKES FINE QUALITY HAY

SUDAN GRASS

WONDERFULLY PRODUCTIVE

A MOST VALUABLE QUICK GROWING

PLANT FOR AN ANNUAL HAY CROP

This is a new annual grass that is causing a great deal of inquiry throughout the country. It is very highly recommended by the U. S. Department of Agriculture, who brought it to this country from the Egyptian Sudan in 1909.

Sudan Grass is wonderfully productive. One customer reports over six tons per acre from a single cutting from which he also saved a crop of seed worth \$100 per acre. This is probably the most profitable way to grow it, but our preference would be to produce two crops of hay from broadcasted seeding, cutting the growth each time just when the seed heads are forming. We have produced it for several years on our farms. It makes such a magnificent crop of hay that we are urging our friends who need an annual hay crop to plant Sudan Grass, believing it will produce more tonnage per acre than any other grass now grown. We know that it thrives in Iowa and from the

short time required for maturity we believe it can be grown anywhere in the United States with satisfactory results.

We recommend Sudan Grass to take the place of the millets as a summer hay crop. This in our judgment is its most valued place in the agriculture of Iowa. It will do as a substitute for sorghum for fodder or Kafir, Milo and Feterita as a forage plant, but we do not consider it as valuable in any other form as it is for hay. In quality it is far superior to the millets. It does not get "dusty," nor is it so "seedy" as millet hay, while it will yield much larger quantities per acre than any variety of millet generally grown. The seed is not expensive, and when the small quantity required per acre is considered, you will see that you can grow a crop of it at less cost than any of the millets. It costs more to produce Sudan Grass seed in Iowa than in the South, hence we are asking a higher price for home grown stocks. We will send whichever you prefer.



The field of Sudan Grass at the Iowa Seed Farm

Sudan Grass belongs to the same family as the sorghums, and the Kafir corn, and like plants, but does not grow so coarse, while producing fully as much leaf growth in proportion to the crop. It grows to a height of seven or eight feet, and the stalks vary in size from that of a lead pencil to a half inch in diameter. It is not difficult to cure, and it is claimed by those who have fed it to live stock to contain a great amount of food value.

Owing to the great similarity of Sudan Grass and Johnson Grass, care has to be taken in the selection of the seed. Johnson Grass is a perennial—that is to say, when once established it is hard to get rid of, as the winters do not destroy it. We have not offered Johnson Grass for a number of years because of this fact, and because it was unpopular with our farmers. The Sudan Grass, however, being annual in its nature, does not survive the winter and is not obnoxious nor difficult to get rid of.

Sudan Grass may be planted in cultivated rows, in close drills, or broadcast. If in cultivated rows, we recommend they be made 36 inches apart, using about 3 lbs. of seed per acre. It stools wonderfully if given room; this planting will produce a tremendous crop. Sometimes as much as fifteen or twenty tons per acre is produced. In the dry regions this is the best planting process. Usually the crop can be cut twice during the summer, making a second growth from the roots when the first cutting is removed.

Where there is plenty of rainfall, it may be sown in drills 18 inches apart, using 6 lbs. per acre, or it may be sown broadcast, using 15 to 20 lbs. per acre. Either method makes a solid mass of hay, but in our judgment the broadcast method produces finer quality hay, although not so much tonnage.

By the broadcast method recommended we mean either seeding and harrowing, or using the grain drill as in sowing rye or other small grained cereals.

As with millet and cane and other plants of similar nature, we believe in heavy seeding for Sudan Grass, because what is lacking in quantity is more than made up in quality, and if sown thickly as suggested in the last paragraph, live stock can consume the entire crop.

Because it belongs to the millet and sorghum family, it is not to be planted until the ground is thoroughly warm. Our recommendation is early June. In some seasons it might be started at corn planting time in May, but we believe as good results can be obtained by sowing after the corn has been planted, and is out of the way.

PRICES: **Southern Grown Seed**—Per lb. 40c, 3 lbs. \$1.00 postpaid. See red ink price list for current values.

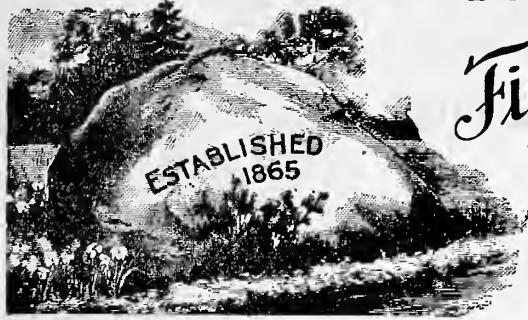
Iowa Grown Seed—Grown on our own farm from selected stocks. Per lb. 50c, 3 lbs. \$1.25. See red ink price list for current values.

1865 United States Food Administration
License No. G 30069 1919

Fifty-four Years Successful Business!

Des Moines, Iowa, January, 1919

Greeting to Our Customers



We wish to express our deep appreciation for the friendship, loyalty and patience of our customers; for the favors at their hands during the past season. Never in the fifty years of our business career has it been so difficult to render adequate service. The seed stocks available were unusually small; the congestion and delays in transportation and the parcels post caused much difficulty, while the giving of 38 of our people to the service of our country added greatly to our troubles. We shall not encounter this difficulty the coming season, while some of our soldiers have returned and we have been able to fill the vacant places in a satisfactory way. The crops, this year are unusually good and the transportation problems much improved so that we think we can safely promise good service this season and entire satisfaction. We know we are as well equipped as any house in the trade to care for your wants, and we will exert ourselves to the utmost that we may continue to merit our place as

"SEEDSMEN TO THE AMERICAN PEOPLE"

OUR GUARANTEE

In trading by mail you have to buy seeds without seeing them. We protect you in this, however, because if any seeds from us are not satisfactory upon arrival and inspection, return them to us and we will refund the money you paid for them. With this agreement you can purchase your seeds of us in every confidence and just as well as though you traded over our counters. You are sole judge; all we require is that they shall be sent back to us within fifteen days from date of receipt by you. This applies to garden, farm and flower seeds. We cannot guarantee a crop, but we can and do guarantee to take seeds back that you yourself are not pleased with. The fifteen days will give you ample time to test them in any way you want. It will give you time to send samples for inspection, analysis or test to the State Seed Inspector or to the Agricultural Experiment Station. Our stocks will stand the closest scrutiny and we are ready to be judged accordingly. You will readily see that we could not make this offer unless our stocks were first class and would give satisfaction to the purchaser.

TO OUR NEW FRIENDS

Each year this catalogue goes to a great number of prospective buyers who have never traded with us and are not acquainted with our stocks or methods. To such we desire to say just a few words of solicitation. This book is compiled with great care that it may be a help to you in your gardening and farming operations. Both text and illustrations are truthful in detail, and it will be found a real guide to better farms and better gardens. Read the catalogue carefully, weigh all the statements and send us a trial order. We will gladly leave in your hands the question of future and continued patronage. Each year our friends increase in number, and this increase comes because those who give us trial orders become firm friends and continuous patrons. We sell the best possible stocks at the lowest prices consistent with profitable merchandizing. Price, however, must be second to quality. You do not want poor seeds at any price. We affirm without qualification that our prices are as low as quality supplied will justify. We want your trade on a strictly business basis and will give value received in quality seeds for money sent us.

Iowa Seed Company, 209-211 Walnut St. Des Moines, Iowa

SUGGESTIONS TO CUSTOMERS

Our constant aim is to make the highest quality the first consideration, and next to put our prices as low as good seed can be sold

Order Early: The best time to order is just as soon as you receive this catalogue, as we can always give your orders more of our personal attention if they come in before the rush of the spring trade. Please use the order sheet, as it makes it more convenient for us in filling orders. You will note there are two order sheets enclosed; one for seeds, tools and miscellaneous goods, and the other for plants, bulbs and nursery stock. If you will use them as intended, it will greatly facilitate the execution of your orders. Terms are invariably cash with order, as we keep no book accounts in our mail order department, and the expense of sending goods C. O. D. is quite large. Postage stamps received the same as cash.

Shipping: There are three interurban companies and fifteen railroad lines at Des Moines, so that quick shipments can be made to any town in the United States.

Charges Prepaid: All Vegetable and Flower Seeds, Bulbs and Plants, except those noted, are sent prepaid by mail or express by the quickest and most direct routes, unless ordered otherwise, and we guarantee the safe arrival. Seeds sold by the peck or bushel, Field Seeds, Potatoes, Implements and other heavy goods are sent by freight or express, customers paying charges. Remember seeds go at special rates by express.

Seeds by Mail: Seeds, plants and bulbs may be sent by Parcel Post. The table of rates, page 2, gives amount of postage required on quantities over 1 pound. Miscellaneous merchandise may go by Parcel Post, and mailing weight is given on items of this kind.

Delivery: The point of delivery of all goods is on cars at Des Moines. When we quote a delivery price it means simply that we prepay the freight, express charges or postage.

Many of our farmer customers live at railroad stations where there are no agents. In such cases we must request them to send sufficient money to prepay freight charges on heavy shipments; also in cases where perishable or other goods are ordered to be sent by freight or express to such great distances that cost of transportation will nearly or quite equal the value of the goods.

Discounts: We have this year made the prices in this catalogue as low as our high grade seeds can be sold, and we can give no discounts. In ordering seeds in bulk you may deduct ten cents per pound on vegetable seeds, such as are listed prepaid, if you are willing to have them sent by express or freight at your expense.

Premiums: Each year we put up thousands of packets of new or particularly desirable varieties of seeds for free distribution to our customers. We will send these out with the seeds ordered by you and will treat you liberally in this respect. We shall also try to please our plant customers by adding something to their order when shipping it.

Our Responsibility: As this book will probably go into the bands of some who are unacquainted with us, this question will naturally arise, and in answer to same we refer you, by permission, to the Commercial Savings Bank of this city, the postmaster, or to any express company.

What We Guarantee: That all money sent to us for seed shall reach us if sent us by registered letter, postoffice or express money order, or bank draft, made payable to our order. That your order will be filled promptly and well. That goods ordered will reach you safely. Keep a copy of your order. Sometimes persons think they have ordered articles which they have omitted, and blame us for not sending them.

About Warranting: We thoroughly test all our seeds and nothing is sent out which we do not believe to be good in every respect. When it is considered how many are the contingencies on which the success of any crop depends, such as sowing too deep or too shallow, too wet or dry soil, unfavorable weather, insects, etc., our customers will readily see that it would be sheer folly for anyone to warrant seeds to produce a perfect crop, and we want it plainly understood that while we exercise great care to have all seeds pure and reliable, and also true to name, we do not give any warranty express or implied as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the seeds on these terms and conditions, they are to be returned at once, and the money that has been paid for same will be refunded. No officer, agent or employee of this company is authorized to make any warranty whatsoever. However, we have so much confidence in our seeds that we hereby agree to refill any retail order for vegetable or flower seeds free of charge should they prove otherwise than as we represent them. We know of no responsible seed firm in the world which guarantees seeds any further than this. Compare with other seed catalogues and you will see that we are right.

Market Gardeners and others who buy vegetable seeds in bulk to send their list of seeds wanted to us and let us make special quotations.

Plant Orders: Orders for plants will be filled as early in the spring as we consider it safe to send them. If ordered for immediate shipment in severe weather they will be sent at purchaser's risk.

Small Orders: We take pains to fill orders promptly and correctly, no matter if only for but one packet of seeds, but we request that plant orders amount to at least 25 cents, and nursery stock to at least 50 cents, as otherwise they are filled at a loss to us.

M. Kurtzweil, President
E. T. Peirce, Vice-President
J. N. Albright, Treasurer
Geo. L. Kurtzweil, Secretary
C. W. Davison, Director

IOWA SEED CO.

DES MOINES, IOWA
OFFICES: 209-211 Walnut Street

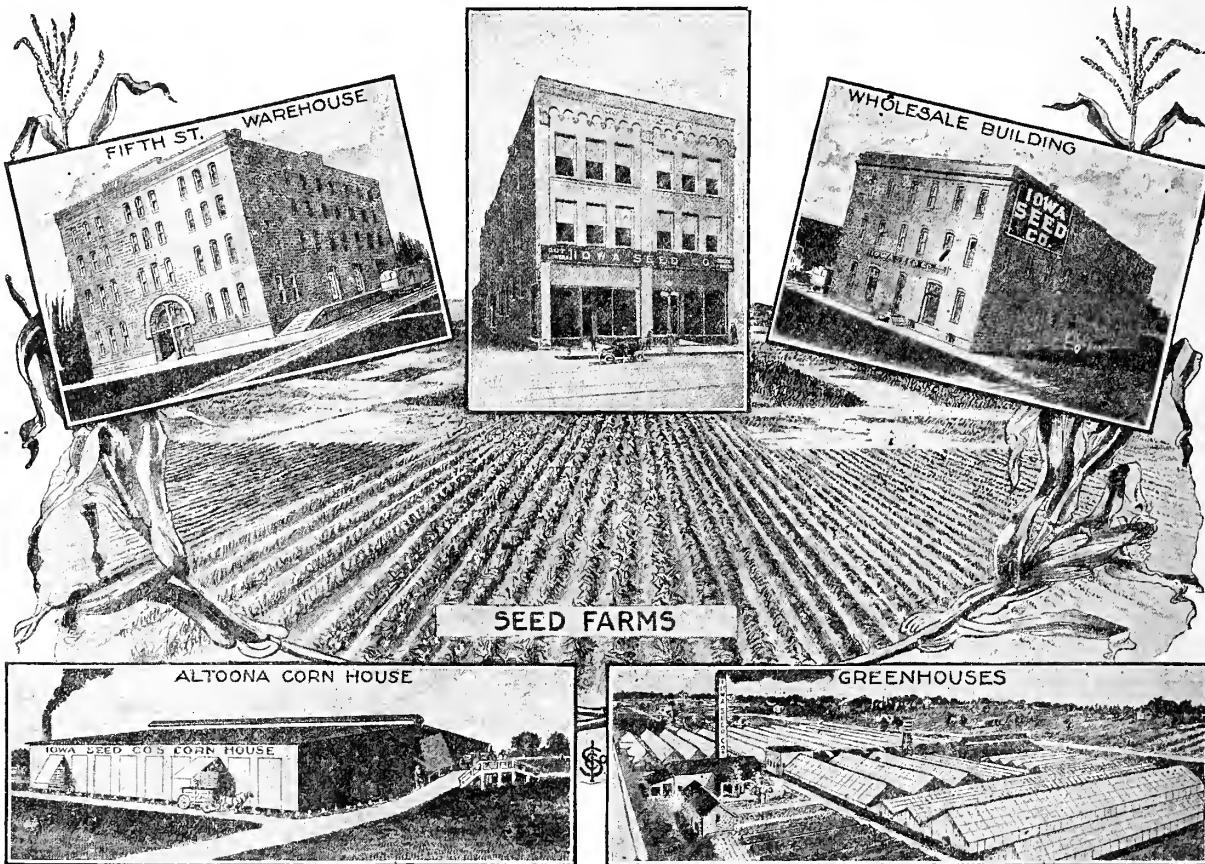
ASSOCIATED COMPANIES

Des Moines Seed Company
Iowa Bird Company
Iowa Floral Company

OUR ORGANIZATION

While the war has caused many changes in the ranks of our employees during the past year, there still remain in active work and control the men who for so many years have conducted the affairs of our company. All business suffered last winter, the basic cause being the breakdown in the transportation system of the country. We do not anticipate a return of those conditions and believe we will be able to give the best possible service the coming season. Mr. Kurtzweil, the president of our company, began service with the business in 1885 and in the same year Mr. Peirce, the vice-president, also began work with the house. Mr. Albright, the treasurer, has labored since 1891, and Mr. Geo. L. Kurtzweil, the secretary, began his business career as errand boy in the office twenty-five years ago. Mr. C. W. Davison, who takes a place on the directory

board, has been superintendent of our greenhouse plant for eleven years and has grown thoroughly familiar with the policies of the house. The heads of departments remain as before the war began, and with such an organization we are in position to render expert service in all branches of the business. The seed business is one which requires great technical knowledge for its proper conduct. Our people have this knowledge and our customers may be assured that their favors will receive at all times the close attention to detail and the full benefit of the experience gained in the long period of successful conduct under the present management. We solicit letters of inquiry from our friends and hold ourselves in readiness to assist in every way we can the success of our patrons. Will be glad to make quotations on your wants at any time.



OUR ESTABLISHMENTS

THE IOWA SEED STORE in the new location at 209-211 Walnut street is a credit to Des Moines and Iowa and is properly a source of pride to us, who try to keep it worthy of the patronage of our 250,000 customers. It is because of your friendship that such a store is possible, and we intend that it shall reflect in beauty and magnitude the confidence of our patrons. We are located in the civic center of the city, within a block and a half of the post-office, the City Library, the Coliseum and the public market. The new interurban station is only two blocks north from our building, while the stations of the steam roads are but a few blocks distant. We are within easy reach of all visitors to our city and invite every customer to come and call upon us when in Des Moines.

THIRTY-TWO GREENHOUSES erected during the past few years are devoted to growing plants for the mail order trade, and contain a greater variety of plants than any other greenhouse establishment in the west. They are located convenient to the electric car line, fronting five blocks on 31st street, from Center street north to Kingman boulevard, one of the finest driving streets in the city. Here we devote several acres to growing flowers, making the finest display to be found in the west.

WHOLESALE BUILDING is located at 208-210-212 South

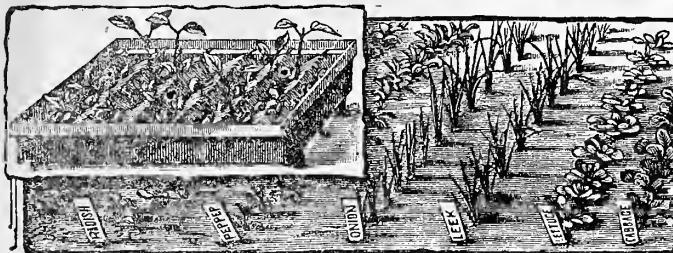
Eighth street, about eight blocks from our store. The railway tracks beside the building give us excellent facilities for handling carload lots, and we are centrally located between the various freight depots so that all shipments can be made promptly. Our machinery is operated by eight electric motors, and we claim that our mills for cleaning seed cannot be surpassed. Most of our employees have been with us many years, and no "green hands" handle seeds in bulk.

THE WAREHOUSE on South Fifth street we have occupied for many years for storage purpose only. Large lots of seed which come in after harvest are thoroughly cleaned and then put away in this building for the spring trade.

SEED CORN HOUSE.—We have a very large trade in seed corn and to care for it properly we erected this building on our seed farm at Altoona. We now have capacity for 25,000 bushels of seed corn, every ear of which can be given the personal inspection of an expert.

SEED FARMS.—In addition to what we produce at our Altoona farm requires the crop from about 8,600 acres to supply our trade and the fields are isolated so as to avoid any mixtures. Some seeds cannot be grown to advantage here, and we contract with practical seed growers elsewhere.

VEGETABLE SEEDS



SEED TESTING AND TRIALS

please. The vegetable seed department is under the personal supervision of the contracts, inspects the growing crops, superintends the farm operations in summer and during the busy months in spring he gives personal oversight to the order filling department. The ruling high prices for grain crops of all kinds have induced many to go into general farming who were formerly engaged in the production of vegetable seeds. Because of large returns offered by the growing of grain and livestock, higher prices have been required to secure the production of small seeds. We expect, however, to give you the same high quality in our **Choice Iowa Seeds** and to supply them at as low prices as present world conditions will warrant.

SEEDS BY PARCELS POST

Customers are urged to use the Parcels Post. We return Excess Postage.

BE SURE AND ADD ONE POUND ADDITIONAL TO COVER WEIGHT OF PACKING

Many of our friends will prefer to have their seeds come by parcel post rather than by express. There is not much difference in the cost of transportation by these two methods, but if you want the seeds to come by mail you must send postage, because it must be prepaid. We submit herewith a table showing the postage per pound to each state. This is figured in the way to be most easily understood by our friends. The only thing to remember is to add one pound over the actual amount of seeds you order to cover the weight of packing. For example, you live in Alabama and you order three pounds of Gradus peas by parcel post. You will add 24 cents to the price quoted in the catalogue. If you live in Illinois and want 15 lbs. of peas by parcel post, add 64 cents to the price in the catalogue.

If the postage you send is more than is necessary the surplus will be returned to you inclosed in a small envelope within the package. If you do not send postage we will take it for granted you want the goods forwarded by express or freight.

Remember that we pay the postage on garden seeds ordered by the packet, ounce, quarter pound or pound, no matter what the cost, but on larger quantities postage must be added if we are to send them by mail.

OUR POSTAGE RATE FROM DES MOINES TO ALL IOWA POINTS IS ONE CENT PER POUND.

STATE	Postage Per Lb.	STATE	Postage Per Lb.
Alabama	6 cents	Missouri	4 cents
Alaska	12 cents	Montana	8 cents
Arizona	8 cents	Nebraska	4 cents
Arkansas	4 cents	Nevada	8 cents
California	10 cents	New Hampshire	8 cents
Canal Zone	12 cents	New Jersey	8 cents
Colorado	6 cents	New Mexico	8 cents
Connecticut	8 cents	New York	8 cents
Delaware	6 cents	North Carolina	8 cents
Dist. Columbia	6 cents	Ohio	6 cents
Florida	8 cents	Oklahoma	4 cents
Georgia	6 cents	Oregon	10 cents
Guam	12 cents	Pennsylvania	6 cents
Hawaii	12 cents	Porto Rico	12 cents
Idaho	8 cents	Rhode Island	8 cents
Illinois	4 cents	Samoa	12 cents
Indiana	4 cents	South Carolina	6 cents
Kansas	4 cents	South Dakota	4 cents
Kentucky	6 cents	Tennessee	6 cents
Louisiana	6 cents	Texas	8 cents
Maine	8 cents	Utah	8 cents
Maryland	6 cents	Vermont	8 cents
Massachusetts	8 cents	Virginia	6 cents
Mexico	12 cents	Washington	10 cents
Michigan	4 cents	West Virginia	6 cents
Minnesota	4 cents	Wisconsin	4 cents
Mississippi	6 cents	Wyoming	6 cents

ASPARAGUS

(One ounce will sow forty feet of drill. For asparagus roots, see page 39.) Asparagus is so easily grown and such a large quantity is produced on a small amount of ground that every garden should contain a bed. A bed ten feet square requiring 50 plants will give abundant supply for an ordinary family. Sow early in spring in rows a foot apart; keep clean by frequent weeding and hoeing. Ask for free circular giving instructions for making an asparagus bed.

BONVALLET'S GIANT.—A new and entirely distinct variety, that produces shoots which are white as long as they are fit for use. Robust and vigorous in habit, and throws up larger shoots and fully as many as Conover's Colossal, and requires no earthing up in order to furnish the white shoots so much sought after. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

PALMETTO.—Stalks frequently measure 2 inches in diameter, and even when of extra length are perfectly tender when cooked. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

CONOVER'S COLOSSAL.—The standard variety. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

ASPARAGUS ROOTS ARE OFFERED ON PAGE 39.

ARTICHOKE

A great delicacy. A perennial producing the large flower heads, which are the part eaten, the second season and every year thereafter. Sow seed and when weather becomes settled transplant in rows 4 feet apart and 2 feet in the row.

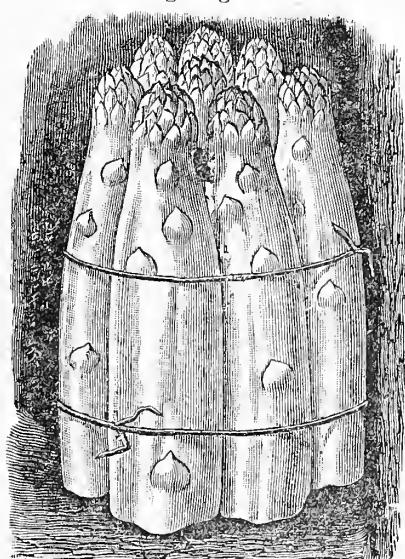
LARGE GREEN GLOBE.—The best variety for general use; buds large; scales green; very thick, fleshy. Pkt. 10c, oz. 35c; $\frac{1}{4}$ lb. \$1.00.

BROCCOLI

(One ounce will produce about 3,000 plants.)

Growth and habit like cauliflower, except more hardy, and heads are not so compact; not desirable for warm or dry countries.

EARLY LARGE WHITE.—The most popular sort. Has medium sized, creamy white heads. Pkt. 10c, oz. 40c.



BONVALLET'S GIANT

BRUSSELS SPROUTS

(One ounce for about 3,000 plants.)

Of the cabbage family, producing numerous heads on the stem, of most delicious quality, with cabbage-like head at top. Use and cultivate like winter cabbage.

AMERICAN MAMMOTH.—Greatly superior variety of American growth, which forms heads about 3 weeks earlier than other sorts. It makes stronger plants and more heads. Profitable for market gardeners. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.

BEANS

DWARF BUSH VARIETIES.
(One pound with sow 50 ft. of drill.)
Dwarf or bush beans require no support and may be planted in drills or hills. They do best if not crowded. Beans are tender annuals and can not be planted until danger of frost is past. Do not plant more than two inches deep. Never cultivate when the plants are wet.

IMPROVED GOLDEN WAX.—The most popular variety and this popularity is due largely to the fact that the strain we have is a great improvement on the old Golden Wax, having larger pods and being more prolific. This improved stock is one of the handsomest beans we have ever seen, the pods a rich golden yellow color and of perfect shape and rust proof. Best for family or market garden. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 60c, postpaid. Not prepaid, 3 lbs. \$1.50, 10 lbs. \$4.50, 25 lbs. or over at 40c per lb.

CHALLENGE BLACK WAX.—This strain of Black Wax is in our opinion superior to that generally offered. Pods tender, round, fleshy and stringless. (See illustration below.) Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 60c, postpaid. Not prepaid, 3 lbs. \$1.50, 10 lbs. \$4.50, 25 lbs. or over 40c per lb.



STRINGLESS GREEN POD

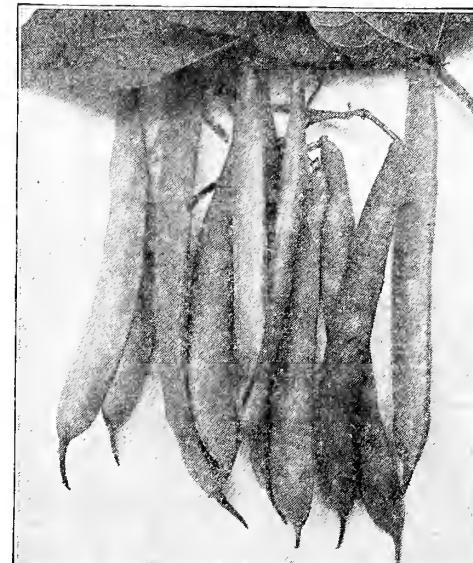
STRINGLESS GREEN POD.—A stringless green pod bush bean. Surpasses all others in crisp, tender flavor. Finely shaped, long green pods, absolutely stringless; ready to market two weeks earlier than the Valentines. Of immense value to market gardeners and amateurs who seek an early bean. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 50c, postpaid. Not prepaid, 3 lbs. \$1.20, 10 lbs. \$3.50, 25 lbs. or over 30c per lb.

BOUNTIFUL.—Vines strong, upright, abundant heavy foliage. The pods are thick and broad and entirely stringless, and produced in greater profusion than any other bush bean. Resembles Yellow Six Weeks in habit of growth. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 50c, postpaid. Not prepaid, 3 lbs. \$1.20, 10 lbs. \$3.50, 25 lbs. or over 30c per lb.

STRINGLESS REFUGEE.—A well-known sort producing its fleshy, round, green pods in wonderful abundance. It is very tender and cooks quickly. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 50c, postpaid. Not prepaid, 3 lbs. \$1.20, 10 lbs. \$3.50, 25 lbs. or over at 30c per lb.



IMPROVED EARLY VALENTINE



BRITTLE WAX

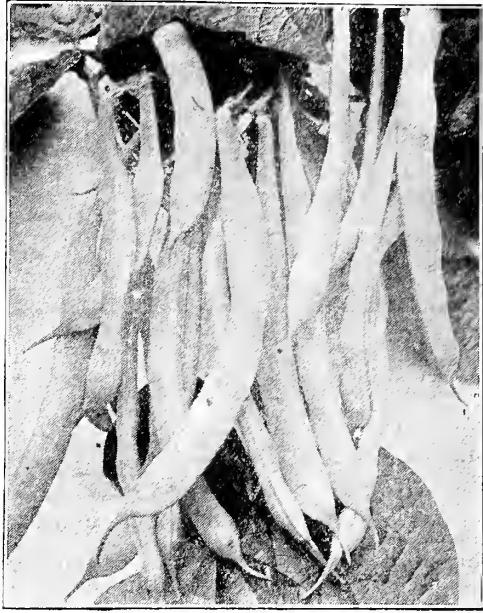
IMPROVED EARLY VALENTINE.—Standard green pod variety. Produces the true, round curved pods abundantly. Unexcelled in quality and uniformity of ripening; nearly the whole crop can be taken at one picking, usually within 35 days after planting. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 50c, postpaid. Not prepaid, 3 lbs. \$1.20, 10 lbs. \$3.50, 25 lbs. or over at 30c per lb.

IMPROVED NAVY, or Boston Pea.—An improvement over the old-time Navy Bean. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 35c, postpaid. Not prepaid, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. or over at 20c per lb.

PROLIFIC TREE, or California Branch.—A valuable variety for field culture. Grows about 20 inches high, has stiff, upright branches and bears immensely. The beans resemble White Navy. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 35c, postpaid. Not prepaid, 3 lbs. 75c, 10 lbs. \$2.25, 15 lbs. or over 20c lb.

PLEASE NOTE

We are this year selling Beans, Sweet Corn and Peas by the pound. By this method there is no chance for short measures.



IMPROVED GOLDEN WAX

BRITTLE WAX.—Claimed to be earlier than Golden Wax. Plant is a strong grower with large foliage and very productive. Pods are nearly straight, rather broad, solid and four to six inches long. Pods are stringless and the quality is excellent. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 60c, postpaid. Not prepaid, 3 lbs. \$1.50, 10 lbs. \$4.50, 25 lbs. or over at 40c per lb.

WARDWELL'S KIDNEY WAX.—Very popular with market gardeners on account of its handsome, clean, straight pods. Early and very prolific. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 60c, postpaid. Not prepaid, 3 lbs. \$1.50.

DAVIS WHITE WAX.—The best white seeded wax-pod variety. While other sorts may have superior qualities this bean does not show discoloration when cooked, and for that reason is preferred for canning. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 60c, postpaid. Cannot quote in quantity.

I thank you for promptness in sending the seeds. They are coming fine. You shall have next order. Sophia Smith, Nebr, City



CHALLENGE BLACK WAX

BEANS--CONTINUED

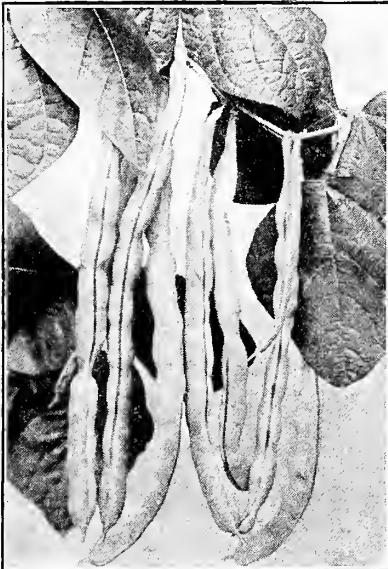


Beans are a short crop again this year. We believe we have sufficient for our trade, but would advise you to order early.

prepaid, 3 lbs. \$1.50, 10 lbs. \$4.50, 25 lbs. or over at 40c per lb.

POLE BEANS

This class of beans require support for best results. Frequently they are planted among the corn and good returns are secured in this way, but if you can furnish poles for support they will produce wonderfully. The extra care given will be fully repaid by increased yield.



GOLDEN CLUSTER WAX

OLD HOMESTEAD.—Is also known as Improved Kentucky Wonder. Increasing in popularity each year. We recommend it as among the most productive snap beans and it is unsurpassed in quality. We recommend it and ask that you give this variety a trial. It has reached first place on the list solely on merit as it is enormously productive, pods hanging in great clusters from top to bottom of the pole. Entirely stringless, pods of silvery green color. Can be grown with corn to good advantage. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 60c, postpaid. Not prepaid, 3 lbs. \$1.50, 10 lbs. \$4.50, 25 lbs. or over at 40c per lb.

LAZY WIFE.—Another very popular pole bean. It derived its name from its immense productiveness, and from the ease with which they are picked. The pods are produced in great abundance, and measure from $4\frac{1}{2}$ to 6 inches in length. They retain their rich, tender and stringless qualities until nearly ripe. The white beans are large, round, plump, and make excellent winter shell beans. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 60c, postpaid. By express, 3 lbs. \$1.50, 10 lbs. \$4.50, 25 lbs. or over at 40c per lb.

SPECKLED CUT SHORT.—The old-fashioned cornfield bean so popular because it seems better than most pole varieties. Of good quality and a good yielder. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 60c, postpaid. Not prepaid, 3 lbs. \$1.50, 10 lbs. \$4.50, 25 lbs. or over at 40c per lb.

GOLDEN CLUSTER WAX.—Considered the best of all wax pole beans. It bears profusely its long, golden yellow pods in clusters of from 3 to 6, from the bottom to the top of the pole, and continues in bearing from the middle of July until the vines are cut by frost. Pods are 7 to 8 inches long. They are quite flat but fleshy, absolutely stringless, very brittle and delicious. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 60c, Not prepaid, 3 lbs. \$1.50, 10 lbs. \$5.00.

KING OF THE GARDEN LIMA.—An improvement on the large White Lima. Pods are of enormous size. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 60c, postpaid. Not prepaid, 3 lbs. \$1.50, 10 lbs. \$4.50, 25 lbs. or more at 40c per lb.

YARD LONG.—A great curiosity but withal an excellent variety. Produces pods fully three feet long. Splendid for use in the green state as the pods are tender and of fine flavor. Pkt. 10c, $\frac{1}{4}$ lb. 25c, lb. 85c, postpaid.

SCARLET RUNNER.—Valuable for table use or as an ornamental vine. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 50c, postpaid. Not prepaid, 3 lbs. for \$1.20.



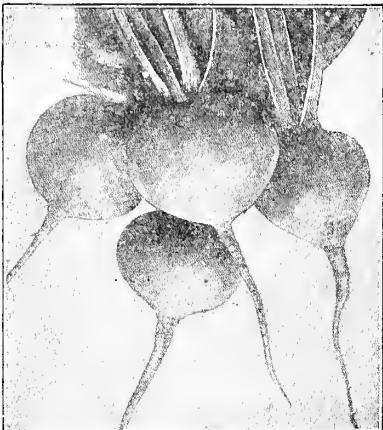
BURREE'S BUSH LIMA



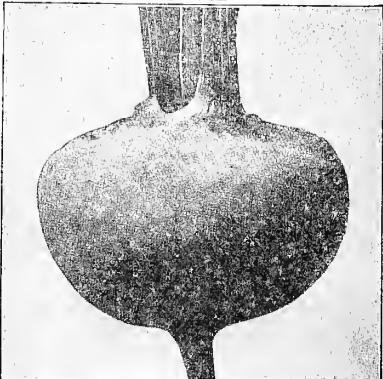
OLD HOMESTEAD



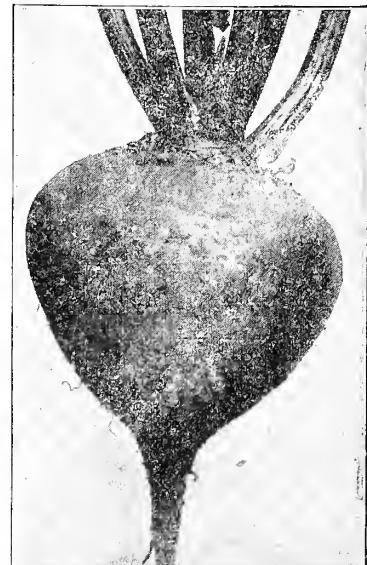
LAZY WIFE



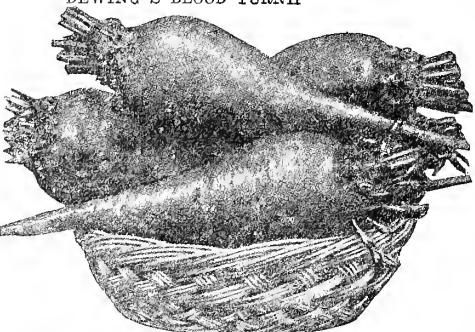
ECLIPSE



CROSBY'S EGYPTIAN



DEWING'S BLOOD TURNIP



GROW MANGELS, CARROTS, RUTA BAGAS AND OTHER ROOTS FOR YOUR LIVE STOCK.

BEETS

(One ounce sows 50 feet of drill; 4 to 6 lbs. for one acre.)

For early, sow as soon as ground can be worked, and from the middle of May for general crop, in drills 15 inches apart and 1½ inches deep. As the plants grow, thin to 6 inches in drills. Young plants make excellent greens. The soil should be a deep, rich loam. Hoe often, taking care not to bruise the roots.

CROSBY'S IMPROVED EGYPTIAN.—We believe this to be the earliest variety. Great improvement on the old Egyptian, being thicker, handsomer and more regular in shape, smooth with small tops and small tap root. Takes on its turnip shape and looks well even in early stages of growth, therefore it is preferred for forcing to any other sort. This is a decided advantage for a market where beets are sold in bunches. Very popular with Des Moines market gardeners for this purpose. Being a rapid grower, it may be sown outside as late as the first of August. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.50.

EARLY CRIMSON GLOBE.—A very early variety, of spherical form. Skin very smooth and it is as handsome a beet as you can imagine. It is a rich, deep red color, shading to purple. Its flavor cannot be surpassed. When cooked it is of even, dark color throughout, and is attractive on the table. Uniform shape and size. Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. \$2.00.

DETROIT DARK RED.—One of the best varieties grown for main crop. Its roots are round, very smooth, of good marketable size, and for table use no variety can excel it in fine quality. The skin is deep blood red; flesh is also dark red and is sweet and tender. Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. \$2.

ECLIPSE.—This variety is still exceedingly popular. It possesses all qualities requisite in a first-class beet, and is of uniform globular shape. Roots a bright, glossy red, fine grained and delicious. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

DEWING'S IMPROVED BLOOD TURNIP.—Improvement on the old Early Blood Turnip. Globe-shape, deep blood red color, fine flavor, a good seller and generally considered the most desirable variety for main crop and winter use. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

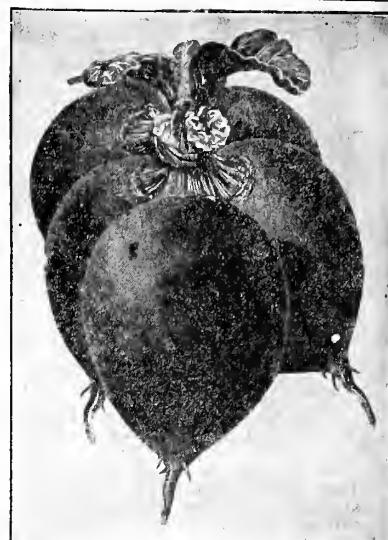
IMPROVED MARKET GARDENERS.—Undoubtedly one of the best varieties ever introduced and receives much praise from our customers each year. As will be noted by engraving, it is very symmetrical, with small tap root. Unusually small tops. Though on some soils the Egyptian can be marketed a few days before the Market Gardeners, still within a week it will be found larger than the Egyptian, while it continues to grow until late in the fall, attaining a large size, and making a good eating and selling beet for the winter. One sowing will produce early beets for the market and main crop for winter use, which is not the case with any other sort. Its color is deep blood red, fine grained and unsurpassed in quality. Profitable for market and family gardens. Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. \$2.00.

GOLDEN GLOBE.—A distinct variety fully equal and by many considered superior to red sorts in sweetness and flavor, but both skin and flesh are bright yellow. When cut up in a dish with red beets, they make a handsome contrast. They mature early and are so sweet and nice that they should become popular. Pkt. 10c, oz. 20c.

LONG DARK BLOOD.—A well known sort. Smooth, tender, and a good winter keeper. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

MIXED TABLE BEETS.—Mixture of above varieties which will mature in succession so that one planting will give a supply all summer. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

GIANT LUCULLUS CHARD.—Chard beets are growing in popularity. This variety is the largest and handsomest. Leaves are beautifully curved, and of a soft, clean shade of green. The thick, broad stalks are as large as rhubarb. They are prepared and served in the same manner as asparagus, or leaves and stalks can be used for "greens," and are considered by many superior to spinach for this purpose. Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. \$2.00.



MARKET GARDENER

I find your seeds as satisfactory in this climate as I did back East. They are the best I ever used.—Mrs. S. S. Foster, Mendota, California.



CRIMSON GLOBE

I received your seeds all O. K. and in good shape. It is all good and comes up nicely.—William F. Behling, Boone County, Iowa.

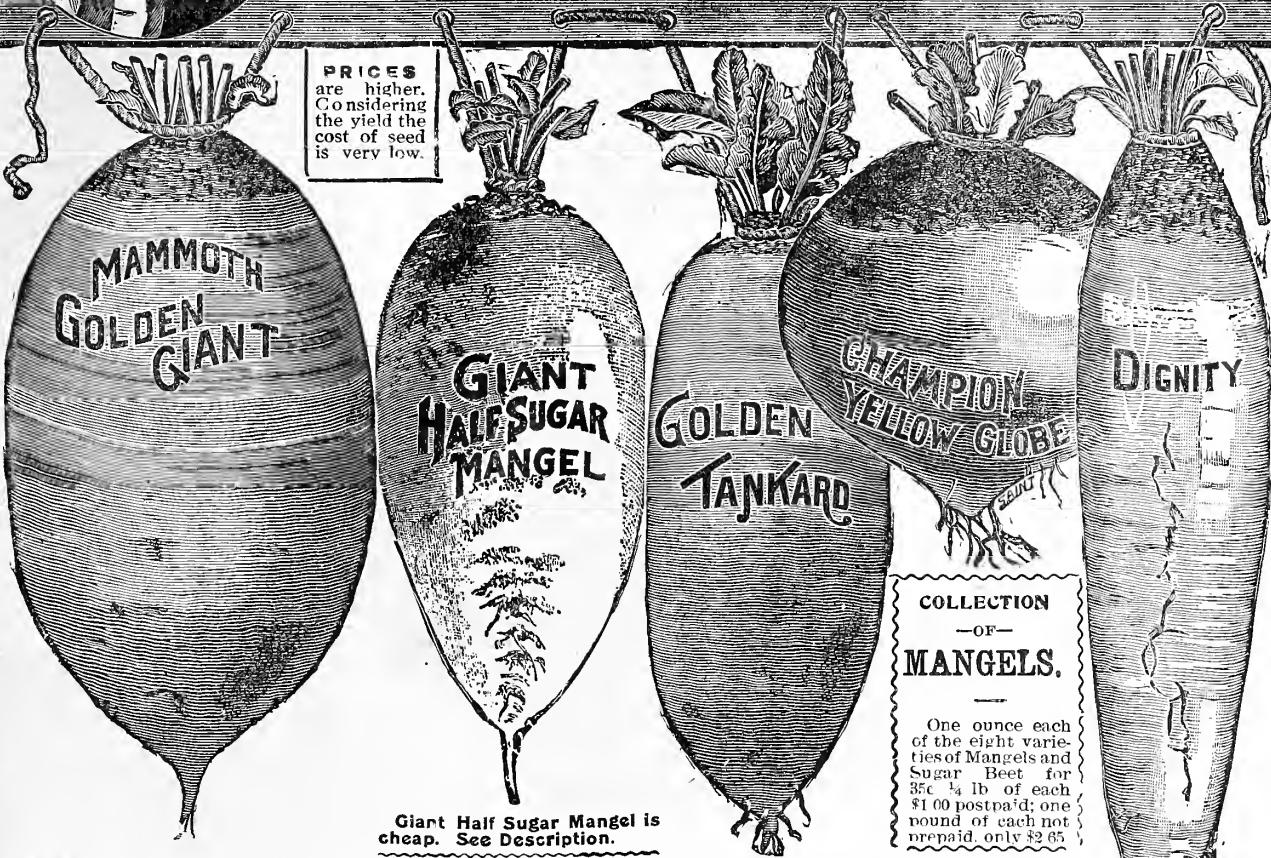


GIANT LUCULLUS CHARD

MANGEL & SUGAR BEETS FOR STOCK.

EXTENSIVELY grown in all parts of the country for feeding stock. Sow in April or May in drills three feet apart, and thin to ten inches in the row. If your soil is deep and mellow, try the long varieties; if shallow the round kinds will do better. No crop pays the farmer and stockraiser better than mangels; 1,000 bushels to the acre is an ordinary yield, while, with good culture, 2,339 bushels have been grown to this amount of ground. It costs, counting labor, use of ground and everything, less than \$50 to raise an acre of mangels and gather and store them. This, for an ordinary yield, is a cost of only five cents per bushel. They make the cheapest of foods for all kinds of live stock—horses, cattle, sheep, pigs, chickens, etc. Easily grown, and they help to keep stock in good condition and free from disease. Dairymen claim that a bushel of mangels and a bushel of corn are worth more than two bushels of corn. Full directions for culture and storing mangels, will be sent on application. Use five pounds to an acre. Prices quoted by express are not prepaid.

PRICES
are higher.
Considering
the yield the
cost of seed
is very low.



MAMMOTH GOLDEN GIANT.—The largest of yellow flesh mangels. Grows more than half above ground and of a more grayish or rather russet yellow. Remarkably even in shape; of vigorous growth; has a fine neck and very smooth skin; flesh firm and sweet. It is a most excellent keeper; yields 40 to 60 tons per acre. Oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00. Not prepaid, 5 lbs. for \$4.25.

CHAMPION YELLOW GLOBE.—The finest type yellow globe in cultivation. Roots immense size, fine shape, small tap root, neat top. Flesh being very firm and fine grained renders it an excellent keeping variety. We recommend this variety as the best adapted to shallow soils. Our seed of this sort is particularly choice. Per oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 90c. Not prepaid, 5 lbs. or more at 85c per lb.

GIANT SLUDSTROP.—This is a variety of exceptionally even growth, showing careful production of stock seeds for many years. Color is reddish yellow, excellent in shape, which resembles Golden Tankard, and is superior to that popular sort in every way. Contains more sugar, grows larger, more above ground and is therefore easier to harvest. It is the best of all mangels for feeding purposes. Per oz. $\frac{1}{4}$ lb. 30c, lb. 90c. Not prepaid, 5 lbs. or more at 85c per lb.

For five years past your seeds have been all right.—Mrs. Scott Asher, Trenton, Missouri.

I wish to say that seeds and plants bought of you last spring were a great success.—Mrs. E. M. Collen, Malcom, Iowa.

DIGNITY LONG RED.—Improvement on the Mammoth Long Red by careful selection for a number of years. Unexcelled for yielding and feeding qualities. Grows to a very large size, weighing from 20 to 50 lbs., and will yield 50 tons per acre with ordinary good cultivation, and if you want large crops of large mangels of good quality, don't fail to try Dignity. It is very uniform, smooth and of good shape. Should be grown on deep, loose soil. Per oz. $\frac{1}{4}$ lb. 30c, lb. 90c. Not prepaid, 5 lbs. at 85c per lb.

GIANT HALF SUGAR MANGEL.—A hybrid or cross between the Mammoth Long Red and Sugar Beet, and for our own feeding we have found it superior to either. Being sweeter, both cattle and hogs relish them greatly. As heavy a yielder as the mangels and equally as smooth. Per oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c. Not prepaid, 5 lbs. or more at 60c per lb.

GOLDEN TANKARD.—Best for dairy farming. Considered indispensable among English dairy farmers; it is stated by them they are able to obtain a higher price for milk when feeding cows on Golden Tankard. Sheep thrive on it. Other mangels cut white, circled with yellow, but this is of a rich, deep yellow throughout. Early, hardy, a heavy cropper, and on account of shape the roots can grow close in rows. Oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 90c. Not prepaid, 5 lbs. or more at 85c per lb.

KLEIN-WANZLEBEN SUGAR BEET.—This is the variety which is cultivated for the beet sugar factories, as it usually yields fifteen to twenty per cent of sugar. Root is of shape shown in our illustration, straight, tapering evenly and somewhat screw shape. Our seed is grown with care from beets which were tested as to per cent of sugar before setting out. The sugar makes it of great value for feeding. Per oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00. Not prepaid, 5 lbs. or more at 90c per lb.

LANE'S IMPERIAL SUGAR BEET.—The largest of the sugar beets and the one usually grown for stock feeding. Yields heavy tonnage of beets with high percentage of sugar. Per oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00. Not prepaid, 5 lbs. or more at 90c per lb.



NEW WASHINGTON WAKEFIELD.—A grand variety, a trifle later than Jersey Wakefield; produces much larger heads, of perfect pyramidal shape, very solid, with few outside leaves. We recommend the use of both types of Wakefield for the market gardener but if you have room for only one kind of early cabbage choose the Washington Wakefield. One cabbage grower, who is enthusiastic in its praise, says, "It is first in head, first in market, and first in the hearts of gardeners." It grows remarkably uniform, heads are of even size and shape. Unequalled for market or family garden. Pkt. 10c, oz. 75c, $\frac{1}{4}$ lb. \$2.75, lb. \$10.00.

BURPEE'S ALL-HEAD EARLY.—This is the earliest of the flat-headed cabbages, of larger size than early varieties generally, of perfect shape and it makes exceptionally solid heads. It was originated by the late C. L. Allen, of Long Island, N. Y., but named by Mr. Burpee, who purchased the first crop and gave it his name. Our seed is grown from the original stock so that we have as good stock as can be purchased. It matures heads only a few days later than the Washington Wakefield and because of the shape of the head is preferred by some to the pointed type. Pkt. 10c, oz. 75c, $\frac{1}{4}$ lb. \$2.75, lb. \$10.00.

COPENHAGEN MARKET.—A splendid new early flat head cabbage. Claimed to mature as early as Jersey Wakefield, has few leaves and is remarkably hard and solid. Grows compact, takes but little room and matures with a short stem. We tested it and proved it on our own farms before offering it to our trade. We recommend it without reservation. It is a carefully bred variety from Denmark and the type and quality are thoroughly fixed. This is one of the sorts which we import and we are advised that our grower will have a fair crop and will be able to ship it to us. War conditions are responsible for higher prices. Pkt. 15c, oz. 85c, $\frac{1}{4}$ lb. \$3.00; lb. \$12.00.

ALL SEASONS.—(Vandergraw)—This is a medium early variety, but is hardy and can be planted in the middle of summer for late cabbage, hence its name. If used as a summer cabbage it is handled like any early sort and matures with succession. It grows to large size quickly, reaching 15 lbs. in weight with good care and conditions. It is as fall cabbage, however, that it gives best results. Plants set in the fields July 15th will mature very large, solid heads in September, and they may be used any time thereafter or will keep for winter use if left standing in the fields until after frost. Heads are compact, solid and of fine texture so that it is an excellent sort for kraut. Pkt. 10c, oz. 60c, $\frac{1}{4}$ lb. \$2.25, lb. \$8.00.



COPENHAGEN MARKET

(One ounce will produce about 3,000 plants. Set 8,000 to 10,000 plants per acre, of early sorts, and 6,000 of large, late kinds.)

No vegetable is of greater importance than cabbage, and compared with the cost of seed, there is more money in growing cabbage than any other crop. It does not pay, therefore, to take any risk in buying seed. We have had our cabbage seed grown by the same growers for about twenty years past, and it has proven of uniformly, excellent quality, so that we pride ourselves on having the purest and highest grade of cabbage seed that is offered, or at least it is surpassed by none. The cabbage requires a deep, rich soil and thorough working to insure good, solid, full-sized heads. Sow early sorts in hotbeds about six weeks before time to set out the plants in the field or garden. Transplant to rows three feet apart. Our packets contain about 500 seeds. Slug Shot and tobacco dust are used to kill insects and worms.

EARLY VARIETIES

EARLY JERSEY WAKEFIELD.—Considered by many gardeners the very best first early variety. Of large size for so early a kind and is certainly deserving of its great popularity. Heads pointed, hard and solid, and have few outside leaves. Our seed is highest quality, American grown. Crop very short, order early. Pkt. 10c, oz. 75c, $\frac{1}{4}$ lb. \$2.75, lb. \$10.00.



ALL HEAD EARLY

OUR AMERICAN GROWN CABBAGE

is not surpassed by any in the world. It has given satisfaction to our customers for many years

HENDERSON'S SUCCESSION.—An excellent variety of large size and with flat head maturing in midsummer. It is generally named as a second early or summer cabbage, to follow the first early sorts and it can be brought to perfection in the hottest weather or used as an autumn or winter crop. Heads 10 to 12 inches in diameter, frequently larger, average about 12 lbs. Pkt. 10c, oz. 60c, $\frac{1}{4}$ lb. \$2.25, lb. \$8.00.



HENDERSON'S SUCCESSION

An extremely short crop of cabbage seed this year is the cause of high prices.

CABBAGE--CONTINUED

CHINESE CABBAGE

PE TSAI.—Produces a long top or head 12 to 15 in long, and 4 to 5 in. in diameter, which blanches to a beautiful clear white. Sow in hot beds for early or treat as late cabbage for winter use. This was originally imported from China. It resembles in growth Romaine or Cos Lettuce. The leaves are large, have broad ribs and are exceedingly tender. Has only become known in the last few years, but its excellence has created for it a large demand. The immense heads frequently weigh as much as six pounds. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.75.



FLAT DUTCH

LATE VARIETIES

PREMIUM FLAT DUTCH.—This old and well known variety is still the standard winter kind. Heads are large, solid and it is a first-class keeper. Our strain of this cabbage is given extra care in selection to maintain its even type and sure heading quality. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$2.00, lb. \$8.00.

IMPROVED DANISH BALLHEAD, or Hollander.—This variety has been selected and perfected for more than fifty years by the Danish gardeners. They grow it almost exclusively for winter cabbage. Heads round, good sized, solid and very fine grained. Has but few outer leaves. A good keeper, tender and crisp, with little waste heart. We import our seed of this sort from Denmark. Crop is short. Pkt. 10c, oz. 75c, $\frac{1}{4}$ lb. \$3.00, lb. \$12.00.

IOWA SEED CO.'S SHORT-STEM DRUMHEAD.—Our improved and selected strain which has greatly pleased thousands of our customers in the past, and so greatly is it improved that in a large field it is almost impossible to find a head that is not solid and well formed. For sureness in heading, regularity of growth, and even, large, solid heads, it far surpasses any other strain of late cabbage, ripening evenly, with very short stem or stalk, and large, thick heads of silky fine quality and best keeping properties. Almost all head and always sure to head. It grows the largest head of any cabbage in our list and is the best for winter use. Pkt. 10c, oz. 75c, $\frac{1}{4}$ lb. \$2.75, lb. \$10.00.

SUREHEAD.—This popular cabbage is rightly named Surehead and never fails to make a remarkably fine, solid, large head with few outer leaves. Strong, vigorous grower; ripens late. First-class main crop sort. Is of the Flat Dutch type but heads are somewhat rounded in form. Equal to that well known sort in keeping qualities. Specimens have been grown to weigh over 30 lbs. but under ordinary conditions run from 12 to 18 lbs. Quality is extra good, as the heads are very firm and solid and of fine texture. It is its solidity that gives the long-keeping quality. Pkt. 10c, oz. 75c, $\frac{1}{4}$ lb. \$2.75, lb. \$10.00.

PERFECTION.

DRUMHEAD SAVOY.

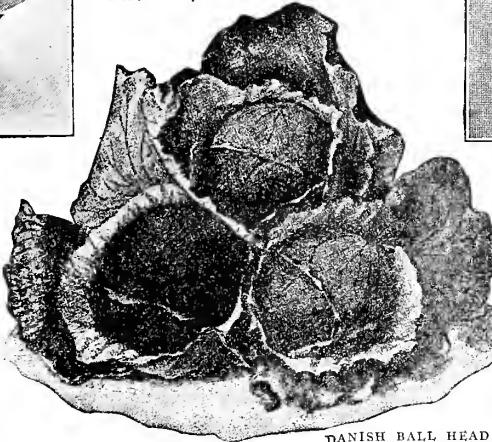
Has curled and crumpled leaves and is of finer flavor and quality than ordinary cabbage. Recommended for the private garden because of quality. Planted and grown as ordinary late or autumn cabbage. Our strain is sure header and is the best variety of this type. Heads are large and solid and will make a good crop. For salads and kraut the Savoy will bring a richer flavor than common kinds. Pkt. 10c, oz. 60c, $\frac{1}{4}$ lb. \$2.25, lb. \$8.00.

MAMMOTH RED ROCK.

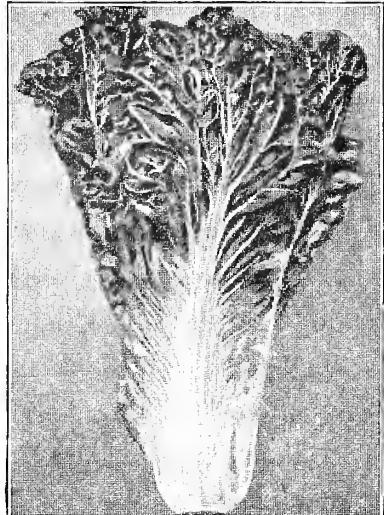
Is the largest of the red cabbages, solid, heavy, and a good keeper. Color is rich dark red so desirable for pickling uses. Heads are solid and weigh 10 to 12 lbs. Every housewife will appreciate a few heads of red cabbage and this is the best variety. Specially recommended to the market growers as the large solid heads will command ready sale where red cabbage is desired. Pkt. 10c, oz. 75c, $\frac{1}{4}$ lb. \$3.00, lb. \$10.00.



SUREHEAD



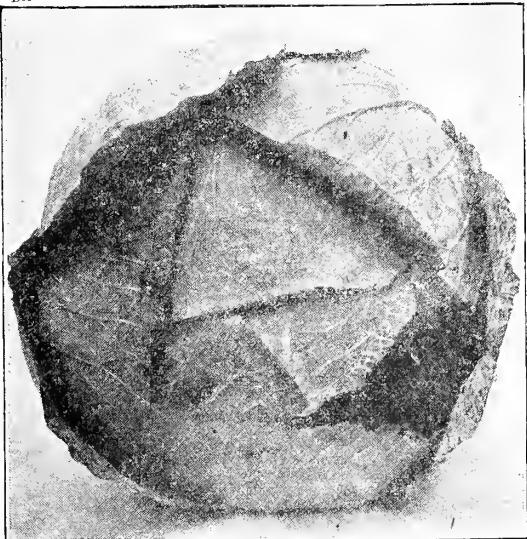
DANISH BALL HEAD



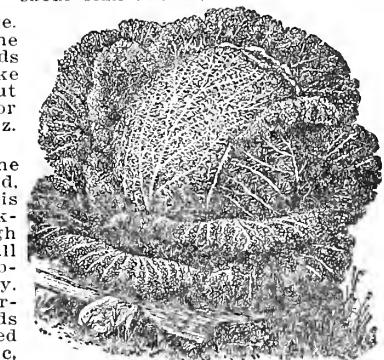
CHINESE CABBAGE

PLEASE NOTE

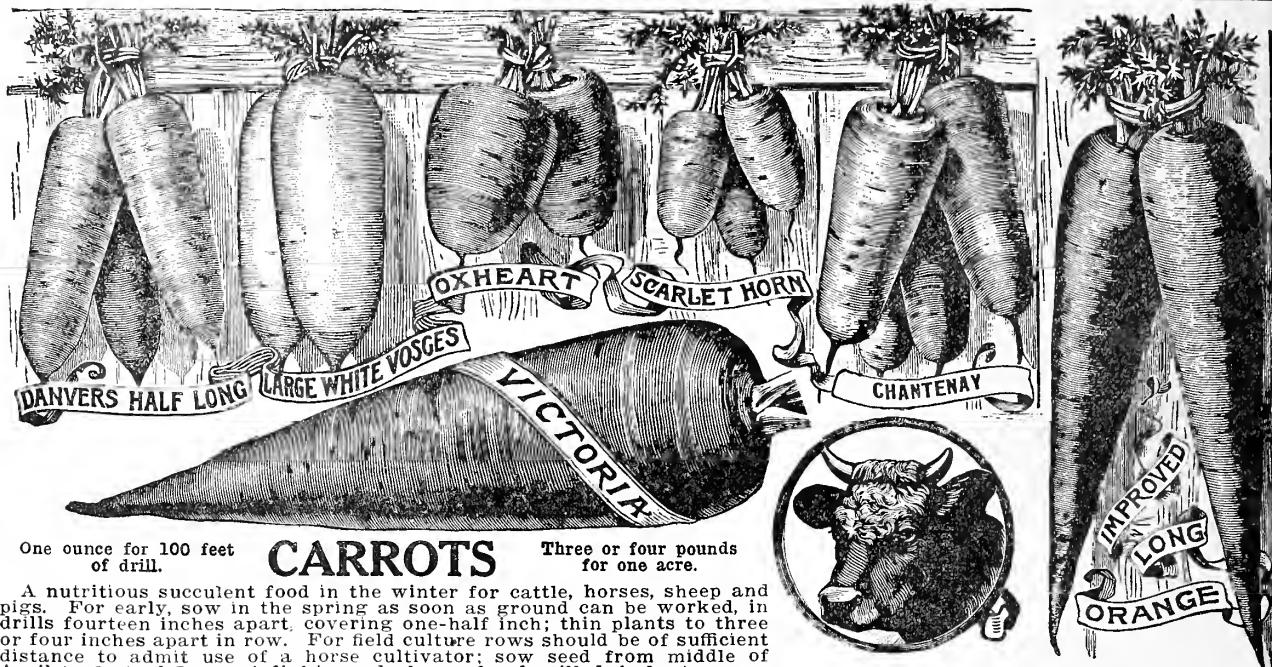
The cabbage seed crop of the entire world is only 10 per cent of normal. The only way to make supplies go round is to ask the planter to buy only what he can use to advantage. Naturally when the grower only has a ten per cent yield he must get a much larger price than with normal crops, and consequently values are higher than ever. A small amount of seed will raise a lot of cabbage. Order your supply early.



SHORT STEM DRUMHEAD



PERFECTION DRUMHEAD SAVOY



One ounce for 100 feet
of drill.

CARROTS

Three or four pounds
for one acre.

A nutritious succulent food in the winter for cattle, horses, sheep and pigs. For early sow in the spring as soon as ground can be worked, in drills fourteen inches apart covering one-half inch; thin plants to three or four inches apart in row. For field culture rows should be of sufficient distance to admit use of a horse cultivator; sow seed from middle of April to first of June. A light, sandy loam, deeply tilled, is best.

EARLY SCARLET HORN.—Favorite extra early variety. Very early. Orange-scarlet, fine grained, and agreeable flavor. Top small, short, stump-shaped root; grows well in shallow soil. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

OXHEART, or Guerande.—Most valuable variety in existence. Intermediate between Half-Long and Horn sorts; diameter 3 to 4 inches at neck; beautiful shape; rich orange color. Easily pulled, early as any, best quality all season. Has yielded 1,200 bushels per acre. Cut tops with scythe; pull with potato hooks. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

DANVERS.—Is in form about midway between the Long Orange and Shorthorn class, growing generally with a stump root. It is of a rich, dark orange color, grows to a large size, is smooth and the flesh very close texture, with little core. It is a first-class carrot for all soils. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

CHANTENAY.—Most desirable early variety for bunching and, although a trifle later than the first earlies, will yield so much handsomer roots and larger crop that everyone is

pleased with it. Splendid variety for market or feeding purposes. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

IMPROVED LONG ORANGE.—Desirable for garden or field. Grows to large size, averaging 12 inches in length and 3 inches in diameter at the top. This is the standard long variety, preferred to Victoria by some because of its deeper orange color. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.75.

VICTORIA.—Largest carrot grown, heaviest cropping and most nutritious; roots remarkably fine, light orange, symmetrical, excellent quality, of high feeding properties; good keeper; heavy cropper on all soils; best adapted for rich land; **grows half as much weight again per acre as other sorts;** grows well out of ground; easily harvested. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

LARGE WHITE VOSGES, or Improved Short White.—A stock variety which is enormously productive and easy to harvest. Color light green above ground, white below; flesh rich, white, solid and crisp; heavy yielding. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

For first crop sow early in hotbeds, or in boxes in the house, in rich, moist soil, covering seed very lightly. For main crop sow in open ground in April. If the weather is hot and dry protect with light covering of hay or straw. Stir soil when plants are well up; thin out and transplant so they stand about an inch apart in the row. If they grow too rapidly, shear tops off when about 4 or 5 inches high. For main crop set out between June 15th and July 15th, in rows 3 feet apart and 6 inches apart in the row. Firm the earth well when setting and they will root better. Keep clear of weeds.

GOLDEN SELF-BRANCHING.—By far the most popular sort; of medium earliness and dwarf, compact habit, with thick, solid, heavily ribbed stalks which branch easily to a clear, waxen yellow. Grown in rich, moist soil, the stalks are numerous and large, with a solid heart of beautiful yellow. French Grown Seed, pkt. 20c, oz. \$1.50, $\frac{1}{4}$ lb. \$4.50, lb. \$15.00. American Grown Seed, pkt. 10c, oz. 75c, $\frac{1}{4}$ lb. \$2.25, lb. \$7.50.

WHITE PLUME.—Stalks, portions of the inner leaves and heart naturally white, and become fit for use by simply tying up closely with soft twine. More used than any other by gardeners. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

WINTER QUEEN.—Finest dwarf celery. Large bunches of heavy stalks of even length; excellent table quality. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

GIANT PASCAL.—A late variety of superior keeping qualities. Very large, solid and crisp; a rich, nutty flavor. Blanches easily. The heart is golden yellow and very attractive. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

GIANT PRAGUE CELERIAC.—Instead of producing long leaf stalks like ordinary

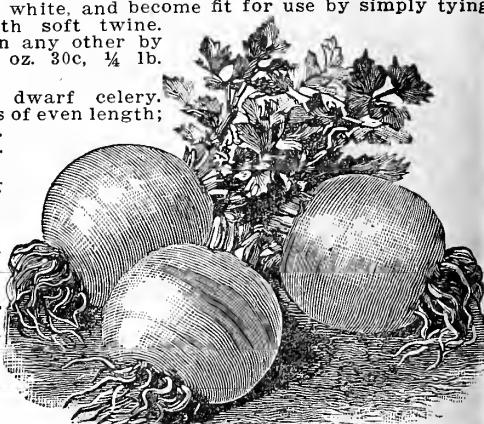


WINTER QUEEN

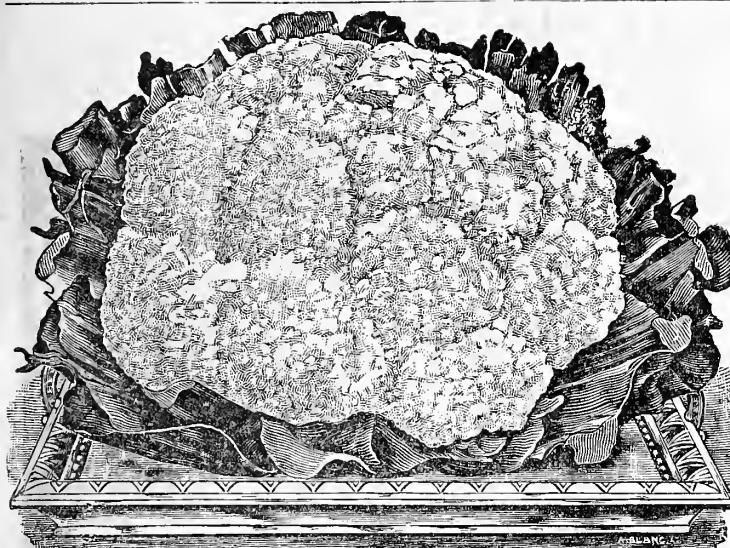
celery it has a turnip-like root with true celery flavor. Used in soups, stews and for all culinary purposes in place of ordinary celery. This is the largest, smoothest and best of the turnip-rooted varieties. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

I have used your seeds for four years and have always had good success with them, as they all grow nicely.—Miss Belle Owen, Crossingsville, Pennsylvania.

THERE IS NOT ENOUGH ATTENTION PAID TO ROOT CROPS BY LIVE STOCK RAISERS. OF GREAT VALUE IN FEEDING.



GIANT PRAGUE CELERIAC



HENDERSON'S SNOWBALL CAULIFLOWER.

CHERVIL

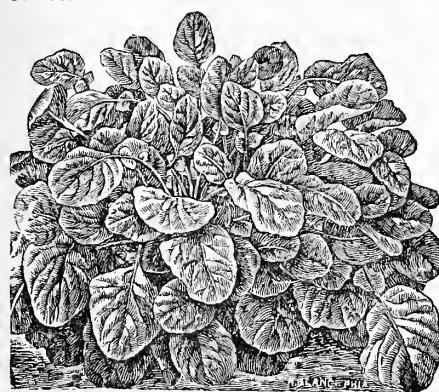
(An ounce will sow 100 feet of drill.) Leaves used in soups and salads. Have a pleasant aromatic taste greatly liked. Cultivate like parsley. Pkt. 10c, oz. 25c.



CHERVIL

CHICORY

LARGE ROOTED.—Used as a substitute for coffee. Cultivated the same as carrots. Take up roots in the fall, cut in small pieces and let dry. When wanted for use it is roasted and ground like coffee. Pkt. 10c, oz. 40c.



UPLAND CRESS

CRESS

EARLY CURLED.—A well known salad. Sow at intervals all season. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c.

TRUE WATER.—Sow seeds along the running water. Pkt. 10c, oz. 40c.

UPLAND CRESS.—A perennial sort; hardy; produces well; same flavor as Water Cress. Grown on high, dry land; does not run to seed soon. Per pkt. 10c, oz. 40c.

COLLECTION OF ODD VEGETABLES

Persons exhibiting at fairs should grow some to help make attractive showing. Have something different.

BRUSSELS SPROUTS.—See page 3. Pkt. 10c.

CHUFAS, or Earth Almonds.—(See right hand column, this page.) Pkt. 5c.

CHINESE CABBAGE.—See page 9. Pkt. 10c.

COTTON.—Start seed early and transplant. Has large, showy flowers, followed by boll of pure white cotton interesting to all. Pkt. 5c, oz. 10c.

CURRANT TOMATO.—(See description on page 35.) Pkt. 10c.

ENDIVE.—Called also Winter Lettuce. Excellent for late use. Pkt. 5c.

EGYPTIAN LENTILS.—It was from these that the dish of pottage was made for which Esau sold his birthright to Jacob in Bible times. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c. lb. 75c.

FRENCH SORREL.—Grown for and used as "greens." Pkt. 5c.

GARDEN HUCKLEBERRY.—(See description and illustration on page 37.) Pkt. 10c.

GOURDS, ORNAMENTAL MIXED.—Pkt. 5c.

GROUND CHERRY.—(See description on page 37.) Pkt. 10c.

KOHL RABI.—(Illustrated on page 15.)

Per pkt. 5c.

MARTYNIA.—Also called "Devil's Claw" and "Unicorn Plant." Ornamental plant bearing beautiful flowers which are succeeded by large seed pods which when young are fine for picking. Pkt. 5c, oz. 30c.

OKRA, or Gumbo Plant.—(Description on page 24.) Per pkt. 5c.

ORNAMENTAL MICE.—Vegetable curiosity; bears small, neat, oval fruits, completely covered with long, light green spines or hairs. Pkt. 10c.

POMEGRANATE.—Ornamental little fruit, commonly grown in gardens a century ago, but now rarely seen. It grows on a pretty vine; fruit is round, yellow, and irregularly striped with orange, red or mahogany; fragrant; a specimen will perfume a room many days. Pkt. 10c, oz. 25c.

SWISS CHARD.—(Illustrated on page 6.) For beet greens. Pkt. 10c.

VINE PEACH.—(Description p. 37.) Pkt. 5c.

18 PACKETS ABOVE, POSTPAID, \$1.00.

CAULIFLOWER

(One ounce will produce about 3,000 plants.)

One of the most delicious of vegetables. Requires similar treatment to cabbage. Does not head well during the hottest weather in summer. Sow the seed early for an early crop and again in June or July for late heads. Our Danish Giant is excellent for late crop. Crop is short; order early.

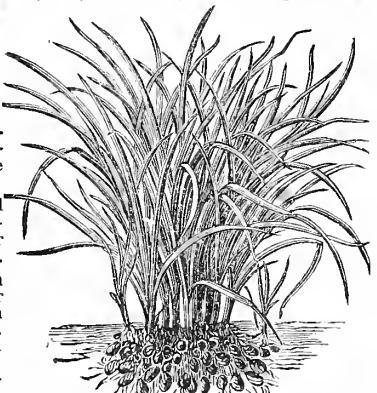
HENDERSON'S EARLY SNOWBALL.—Considered the earliest and more certain to make a head than any other sort. Its dwarf habit and short outer leaves allow it to be planted as close as 18 to 20 inches apart each way, thus making it especially valuable to market gardeners. Our stock is extra choice, and cannot be excelled. We believe it to be the best in the world. Pkt. 20c, $\frac{1}{4}$ oz. 75c, oz. \$2.50.

DANISH GIANT, or Dry Weather Cauliflower.—A strong competitor for first place. Heads extra large, pure white and very solid. Has large leaves which protect the head. About 10 days later than Snowball, but has proven more desirable for growing in open ground and does well in dry seasons when other varieties show failure, keeping plump and fresh during the hottest, driest weather. Pkt. 20c, $\frac{1}{4}$ oz. 75c, oz. \$2.50.

EXTRA EARLY DWARF ERFURT.—Is valuable for forcing. A very popular variety. First quality. Pkt. 20c, $\frac{1}{4}$ oz. 75c, oz. \$2.50.

CHUFAS

A nice little ground nut greatly liked by children. Its flavor resembles the cocoanut. Very prolific, a single one yielding 200 to 400 nuts growing just under the ground and easily reached by pigs and poultry if they have access. Grow best in light, sandy soil, well fertilized. Plant in April, 10 inches apart, in $2\frac{1}{2}$ -ft. rows. Cover lightly. Soak seed before planting if very dry. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c.



CHUFAS

COLLARDS

(One oz. for about 3,000 plants. Collards are very largely used as "greens" in some parts of the country, especially in the South. They are a form of loose-headed cabbage.)

GEORGIA.—The most satisfactory variety for general use. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c.



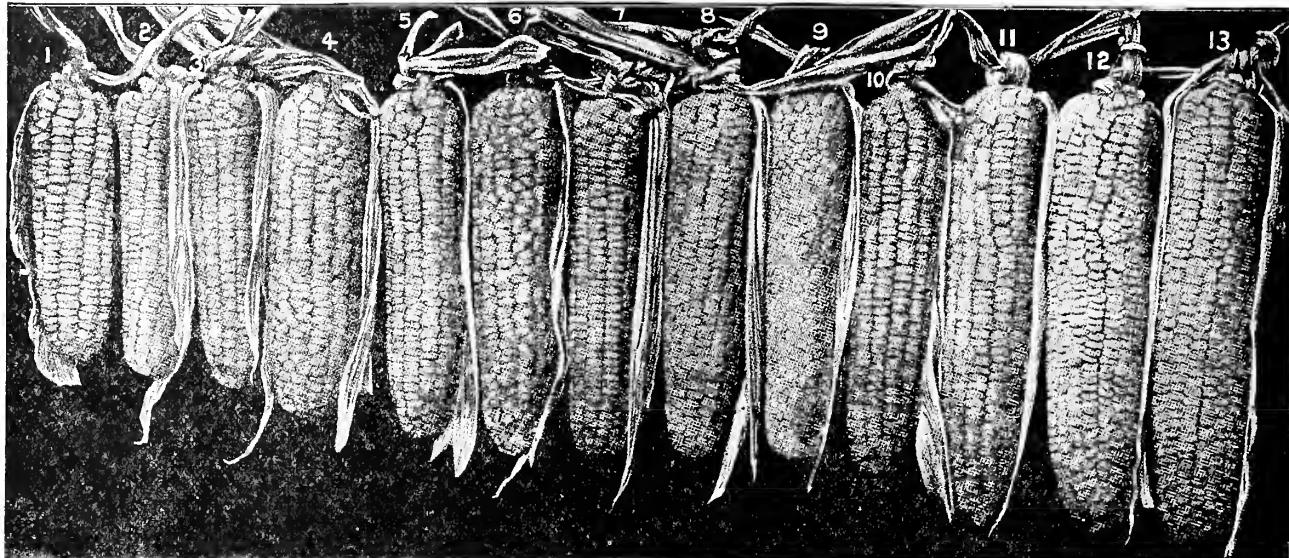
CORN SALAD

CORN SALAD

Nice winter salad. Sow in September in drills. Before cold weather cover with straw or leaves. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c

SWEET CORN

Plant as soon as the ground becomes warm in the spring, in hills about three feet apart; give thorough cultivation. Our sweet corn is carefully grown and selected, only the choicest, most perfect ears being selected for seed. It is far superior to ordinary stock. We pay postage by the packet or pound. Quantities of three pounds or more go by express or freight at customer's cost for transportation or will be sent by parcel post if you send postage. See page 2.

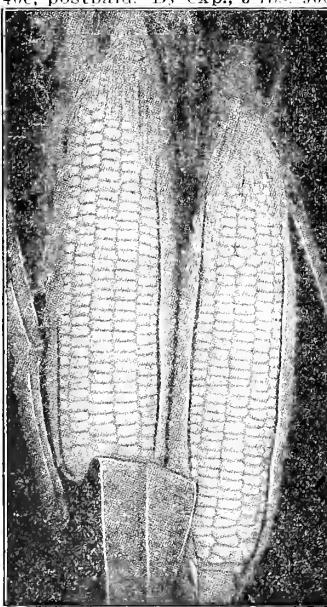


IMPROVED GOLDEN BANTAM.—(See cut No. 1.)—This handsome new variety is one of the most delicious of all and it is generally believed to be the richest in flavor. Is extremely early, of hardy, vigorous growth, so that it can be planted quite early. The stalks grow only about four feet high but they bear two or three good ears six to eight inches long, of handsome yellow color. In flavor it is quite distinct from the white sorts and some have called it as sweet as honey. Give it a trial. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. By express 3 lbs. 90c, 10 lbs. \$2.75, 25 lbs. or over at 25c per lb.

EARLY SUNRISE.—(No. 5.)—Is a splended new variety which we introduced. It is undoubtedly the best extra early corn for either private gardens or the public market. The ears are long, well filled out at the end, and husk covering so completely and being so tight as to prevent working of worms, which are so bad in Cory. Grains fairly deep and set in straight rows on a small white cob; very uniform and handsome. Market gardeners will find Early Sunrise a most profitable and satisfactory sort. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. By exp., 3 lbs. 90c, 10 lbs. \$2.75, 25 lbs at 25c lb.

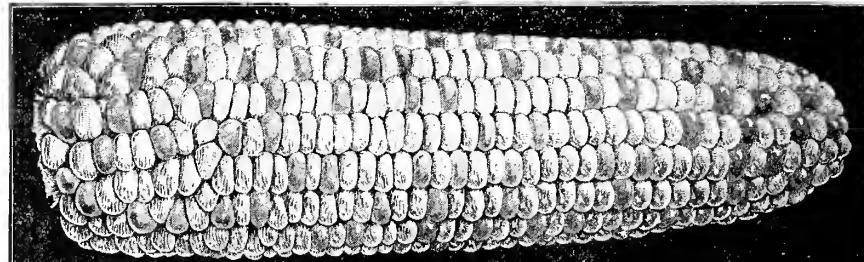
GOVERNOR GILMAN.—Named for Governor Gilman, of Minnesota, who produced it by crossing the Golden Bantam on a larger early white variety of sweet corn of exceptional quality. Both green and mature corn show uneven dotting of white and golden grains as will be noted in our illustration of an ear in fit table condition. When it is cooked it presents a beautiful appearance. It is quality that has induced us to give it a prominent place in our list. There is no corn offered so sweet, so tender and fine flavored. When to quality we add good size, earliness and prolific yield we have in our opinion the best of all sweet corn. It will prove superior in every way. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. By express, 3 lbs. 90c, 10 lbs. \$2.75, 25 lbs. or over at 25c per lb.

I have planted your seeds for several years and find them to be the best. Your seeds give good satisfaction.—Mrs. W. D. McFarland, Humboldt, Iowa.



EARLY SUNRISE

PEEP O' DAY.—(See cut No. 2.)—Of Minnesota origin, five to seven days earlier than other kinds. The ear is five inches long, of perfect form, and well filled. The corn is tender and sweet. On our place it matured with Early Sunrise and is similar to it in many respects. You will make no mistake in planting some of it for first early. Pkt. 5c, $\frac{1}{4}$ lb. 10c, lb. 35c, postpaid. By express, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. or over at 20c per lb.

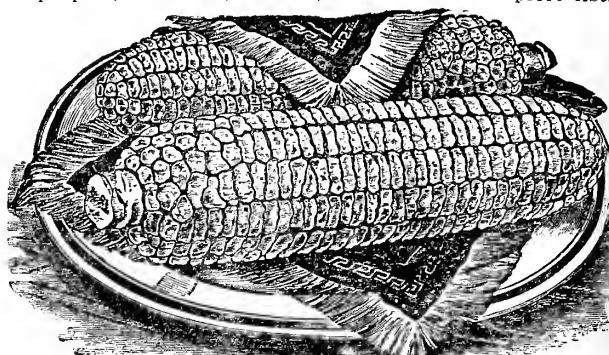


GOVERNOR GILMAN

EXTRA EARLY CORY.—(White Cob).—(No. 3.)—This was for years the most popular variety with market gardeners for first early until the introduction of Early Sunrise. Dwarf growth and yields well. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. By express, 3 lbs. 90c, 10 lbs. \$2.75, 25 lbs. or over at 25c per lb.

EARLY MINNESOTA.—(No. 7.)—A standard variety. Has held its position in the list for a long period of years as a dependable sort. Ears of good size and well flavored. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 35c, postpaid. By express, 3 lbs. 90c, 10 lbs. \$2.25, 25 lbs. or over at 20c per lb.

EVERGREEN SWEET FODDER.—Preferred for the production of feed for live stock. See page 47. By express, not prepaid, 3 lbs. 50c, 10 lbs. \$1.00. See red ink price list.



GOLDEN BANTAM

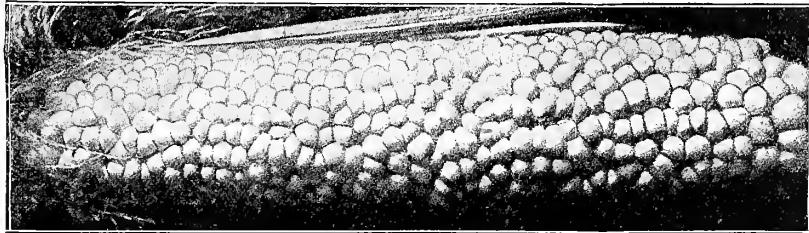
SWEET CORN--CONTINUED

PHARAOH'S DREAM.—(No. 11.)—"And Pharaoh slept and dreamed. . . and behold seven ears of corn came up, upon one stalk, rank and good."—Genesis 41:5. The most productive variety of sweet corn ever sent out. So frequently produces seven ears to the stalk it has been aptly named "Pharaoh's Dream." Ears are large and would sell for Stowell's Evergreen in market. The corn is pure white, tender and of rich, delicate flavor, remaining a long time in an edible condition. Produces better when only one or two grains are planted in a hill. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. By express, 3 lbs. \$1.00, 10 lbs. \$3.00, 25 lbs. or over at 30c per lb.

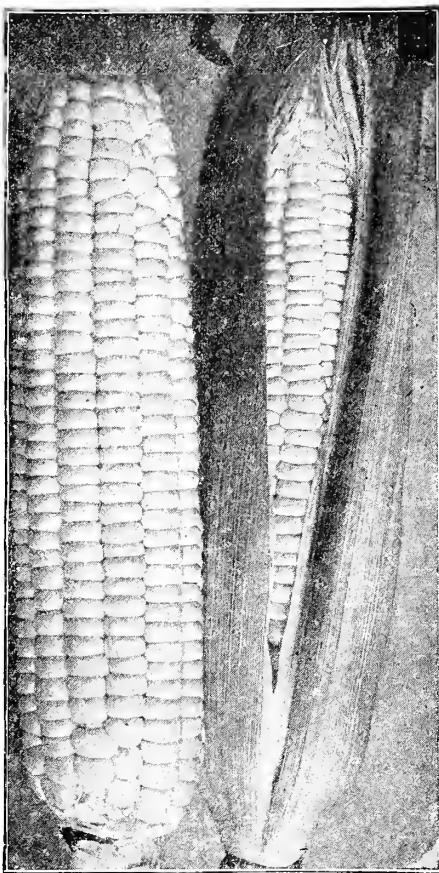
IMPROVED STOWELL'S EVERGREEN.—(No. 12.)—The most prominent main crop sort and more largely planted than any other, being a general favorite with canners and market gardeners for late use. The ears are large size. The grains are deep, exceptionally tender and remain a long time in an edible condition. The dried kernels are shriveled so much that they readily show its unusual sweetness. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. By express, 3 lbs. 90c, 10 lbs. \$2.75, 25 lbs. or over at 25c per lb.

COUNTRY GENTLEMAN.—(No. 9.)—An improvement on the old favorite Shoe Peg Sweet Corn. Our illustration of a single ear shows its habit of growth; produces 3 to 5 ears to a stalk. In this, coupled with the luscious quality, the general superiority of this new variety will be quickly seen. The cob is small, giving great depth to the kernels, which are nearly white and we cannot say too often—surpassingly sweet and tender. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. By exp., 3 lbs. \$1.00, 10 lbs. \$3.00, 25 lbs. or over at 30c per lb.

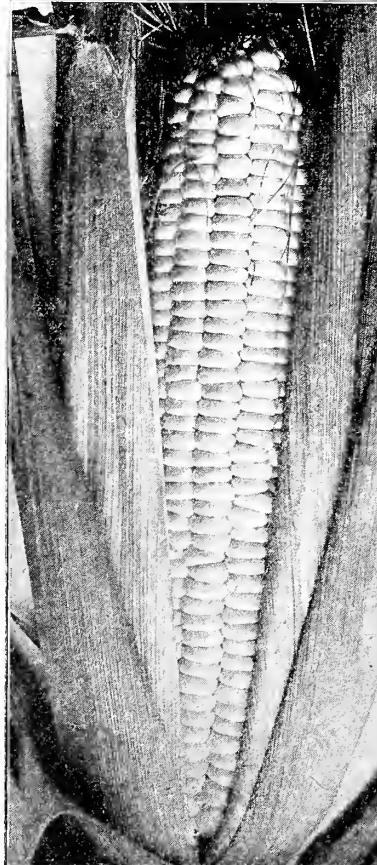
GOLDEN EVERGREEN.—This new variety combines the size of ear of the Evergreen type with the color of the Golden Bantam. The ears are 6 to 8 inches long, well filled with very deep kernels of rich yellow color. In quality it is fully equal to the famous Golden Bantam. Some growers maintain that it is superior in flavor and sweetness to any other. For the home garden and fancy market trade it is a great acquisition, and will be appreciated because of sweetness. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 50c, postpaid. Not prepaid, 3 lbs. \$1.00, 10 lbs. \$3.00, 25 lbs. or over at 30c per lb.



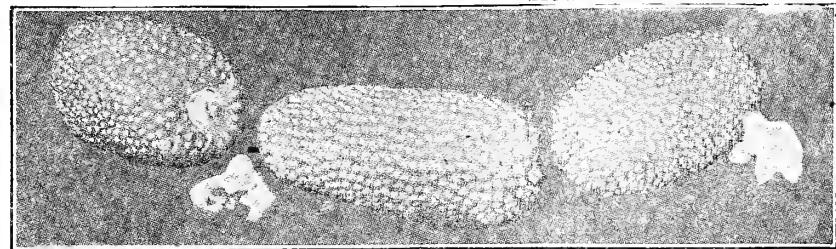
COUNTRY GENTLEMAN



STOWELL'S EVERGREEN



PHARAOH'S DREAM



AUSTRALIAN HULLESS

POP CORN FOR SEED

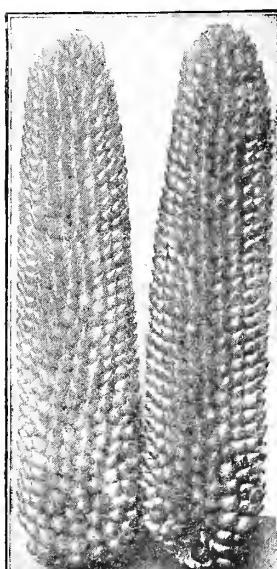
It pays to raise pop corn as a general crop. The demand usually exceeds the supply. Some farmers claim it is as easily grown as field corn and they receive three or four times the amount per acre for the crop. Let the children try a patch.

AUSTRALIAN HULLESS.—This is a dwarf-growing corn, a heavy yielder of attractive ears, peculiar in form, being nearly as thick as long. The kernels are similar to the best strains of White Rice, only longer and slimmer and pearly white in color. Its crowning merit lies in its popping quality, fine flavor and absence of hull or shell. Most tender and delicious flavor when popped. It is grown extensively for market and commands the highest price and most ready sale. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 50c, postpaid. Not prepaid, 3 lbs. \$1.20.

MONARCH WHITE RICE.—This is our own strain of large rice pop corn and has been bred up to wonderful productiveness. We believe it is the best white variety. Bears three to six ears per stalk and yields 1,800 to 2,500 lbs. per acre. The grain is rather large and in popping expands to great size. If you are growing pop corn for market we urge you to plant Monarch White Rice. Pkt. 5c, $\frac{1}{4}$ lb. 15c, lb. 40c, 3 lbs. \$1.10. Not prepaid, 3 lbs. 90c, 10 lbs. \$2.75, 25 lbs. or over at 25c per lb.

MINIATURE.—The smallest pop corn grown. Splendid quality; pops very tender. Listed by some dealers as hulless, but it differs as its shape is more like Monarch White Rice. Pkt. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c, 3 lbs. \$1.50.

QUEEN'S GOLDEN.—Large ear and large, smooth grain of a peculiar lustrous golden yellow. Very prolific. It pops splendidly, the general appearance of the popped corn being a rich cream color, peculiarly attractive. Pkt. 5c, $\frac{1}{4}$ lb. 15c, lb. 50c, 3 lbs. \$1.50, postpaid.

MONARCH WHITE RICE
POP CORN



EARLY EXPRESS

EARLY EXPRESS.—This is by all odds the earliest variety in existence. Quality is the very best, being free from any rank, strong flavor, and is as fine for slicing as any later sort. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

WHITE WONDER.—A large, long fruited variety, of beautiful ivory white color, which it retains during the whole period of growth. Very prolific and of superior quality. We believe it will be more popular than Long Green when once grown. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 60c.

IOWA STANDARD.—The handsomest of long green varieties. Color is beautiful dark green, and they do not turn yellow with age. Fruits measure 12 to 15 inches in length and are smooth and symmetrical. Flesh is firm, crisp, white, and the flavor is most excellent. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

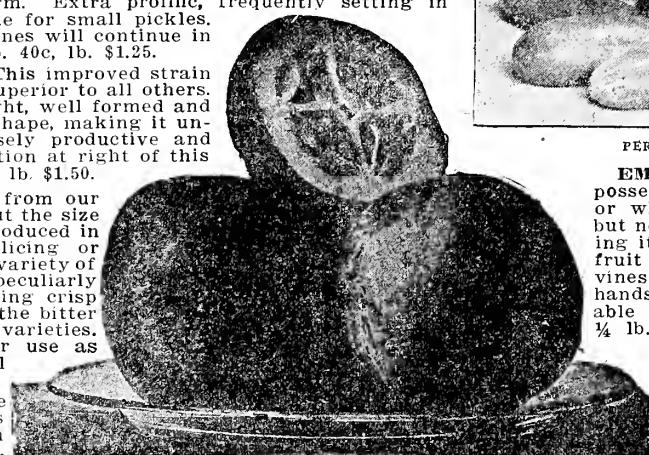
IMPROVED CHICAGO PICKLE.—Medium in size, dark green in color when young. A variety originated by a pickle grower near Chicago; is considered the best variety there; very prolific; matures early, produces immense number of fine shaped pickles. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 55c, lb. \$1.50.

EARLY CLUSTER.—Slim form. Extra prolific, frequently setting in clusters of two and three. Fine for small pickles. If fruit is kept gathered, the vines will continue in bearing. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

PERFECT WHITE SPINE.—This improved strain is pronounced by good judges superior to all others. Fruit even and good size, straight, well formed and symmetrical. It is of uniform shape, making it unexcelled for pickling. Immensely productive and keeps a long time. See illustration at right of this page. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

LEMON.—As will be noticed from our illustration, it is round and about the size of a baseball. The fruits are produced in great profusion. Used for slicing or sweet pickling as any ordinary variety of cucumber, but have a flavor peculiarly their own; superior to any, being crisp and tender and having none of the bitter taste found in green skinned varieties. Of best quality. Desirable for use as mangoes. Will be liked by all who try it. Pkt. 10c, oz. 25c.

JAPANESE CLIMBING.—The vines are of healthy, vigorous growth, with rich, dark green foliage, and throw out strong, grasping tendrils, enabling it to climb trellis, wire netting, brush or any other suitable support. It is of large size, cylindrical, flesh pure white, skin dark green, turning to brown and netted when ripe. Fine for slicing. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.



LEMON CUCUMBER.

IMPROVED LONG GREEN.—A standard sort. Vine vigorous and productive, forming fruit for the table nearly as early as shorter sorts. Produces very fine, firm fruit about 12 inches long. See illustration. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

ROLLISON'S TELEGRAPH.—An English forcing variety bearing fruits 14 to 16 inches long. Dark green, smooth, and of perfect shape. Much used and greatly liked by market gardeners for hotbed and greenhouse growing in winter and early spring. Pkt. 15c.

WEST INDIA GHERKIN, or Burr.—This is a peculiar shaped, very small variety of cucumber which makes a handsome pickle of first-class quality. When ready it is about as large as an English walnut, partly covered with spines, from which it takes the name "Burr" cucumber. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c.

SNAKE.—The cucumbers grow curled up like a snake with the head protruding, and some are six feet in length. Are grown chiefly as a curiosity and for exhibition. In pkts. only. Per pkt. 10c.

Your seeds were very satisfactory last year. In fact, my garden was the best in all this country. Mrs. W. W. Smith, Wagar, Ala.



IMPROVED LONG GREEN

CUCUMBER

(One ounce will plant 50 hills, two pounds will plant one acre.)

Cucumbers succeed best in a rich, loamy soil. For first early, sow in hotbeds, in berry boxes or in small flower pots, six weeks before they can be set out in open ground. When danger of frost is over transplant in hills four feet apart each way. For general crop plant in open ground in May, about twelve seeds in a hill. When danger of bugs is past thin to four strong plants in a hill. For pickling, plant in June. Sprinkle vines with plaster or air-slaked lime, or use Slug Shot, to protect them from bugs.



PERFECT WHITE SPINE

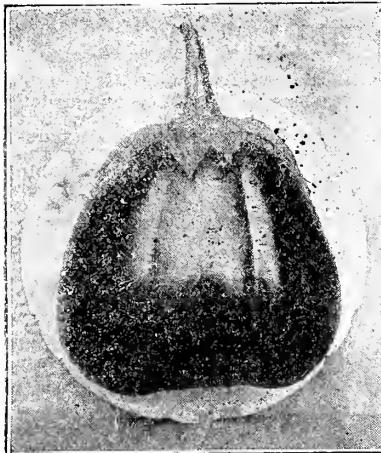
EMERALD.—A new sort which possesses the rich dark green color or which has long been sought but never before obtained, retaining its color until fully ripe. Its fruit sets early and its vigorous vines abound in long, straight, handsome fruits of most desirable qualities. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

SEE OUR OFFER OF CHOICE GARDEN FRUITS FOR PICKLING OR PRESERVING, OFFERED ON PAGE 37.

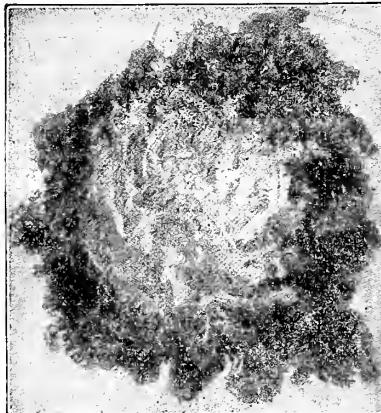
DAVIS PERFECT.—A grand new variety. Everyone who saw the crop last year say they never saw anything to equal it. Dark, glossy, green, slim and symmetrical, with an average length of 10 to 12 in. They hold color till nearly ripe when they turn white without a yellow streak on them. Quality fine, as seeds are very soft when fit for table use. Very tender, brittle and of exceptional flavor. Early as earliest strain of White Spine and outyields all others. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.



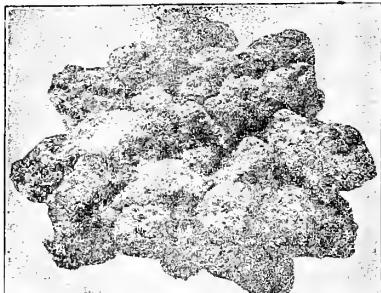
DAVIS PERFECT



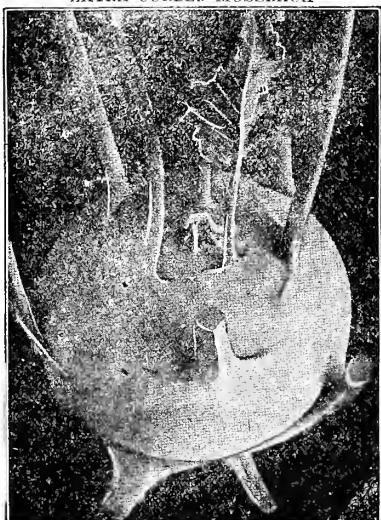
BLACK BEAUTY EGG PLANT



BATAVIA ENDIVE



EXTRA CURLED MOSSBACK



WHITE VIENNA KOHL RABI

EGG PLANT

A tender plant that should be started quite early in a hotbed or box in the house, which must be kept warm. Transplant late to open ground, two feet apart.

IMPROVED NEW YORK.—Our strain of this leading market variety we believe to be unsurpassed. Very large size, skin deep purple, flesh white, of excellent quality. Very productive. Pkt. 10c, oz. 60c, $\frac{1}{4}$ lb. \$2.00.

BLACK BEAUTY.—The earliest variety in existence, being much earlier than the above. Pkt. 15c, oz. 65c, $\frac{1}{4}$ lb. \$2.25.

ENDIVE

(One ounce will sow about 60 sq. ft.) Preferred to lettuce by many. Should be more largely used. One of the best and most wholesome salads for fall and winter. Sow in April for early; in June or July for winter. When 8 inches long tie together with a string near the top to blanch.

BATAVIA.—Has smooth leaves and makes a handsome plant. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

GIANT FRINGED.—Also called winter lettuce. The best of all. Strong, vigorous grower, making large white heart, leaves are beautifully curled and of best quality. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

GOURDS

Cultivate like cucumbers; they may be trained over lattice work, fences, etc. **JAPANESE NEST EGG.**—Grows almost uniformly to the size, color and shape of a hen's egg. The shells are hard and make the very best nest eggs, as they do not crack. Pkt. 5c, oz. 20c.

PIPE GOURD.—The calabash variety, somewhat resembling the Dipper. Pipes are made from neck and lower portion. Pkt. 5c, oz. 20c.

DIPPER.—Makes a light, convenient dipper. Dippers of various sizes of a capacity from a pint to a quart and a half, can be had from a few vines. Pkt. 5c, oz. 20c.

SUGAR TROUGH.—Very large and strong grower. For buckets, etc. Pkt. 5c, oz. 20c.

LUFFA, or Dishcloth.—Has a peculiar lining, which is sponge-like, porous, tough, elastic and durable, making a natural dishcloth or sponge. Start early. Pkt. 5c, oz. 25c.

HERCULES' CLUB.—Grows to immense size—4 to 5 ft. in length. Pkt. 5c, oz. 25c.

MIXED UTILITY.—Seeds of the above mixed. This is a very popular item with our customers. Really useful in many ways. Easily grown. Pkt. 5c, oz. 20c.



NEW YORK EGG PLANT



DIPPER GOURD

GARDEN HUCKLEBERRY

When this new fruit was first offered to us we had but little confidence in it, but after growing it on our grounds we recommend it to our customers. Fully described among the items in our Canning Club Collection on page 37. Pkt. 10c.

GROUND CHERRY

IMPROVED YELLOW.—A delicious garden fruit fully described and illustrated on page 37 of this catalogue, where it is offered as one of the items of our Canning Club Collection. Pkt. 10c, $\frac{1}{2}$ oz. 25c, oz. 40c.

KALE

EXTRA CURLED MOSSBACK.—A most attractive variety; fine crimped leaves, light green; fine for garnishing. Best cooking. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.75.

DWARF GERMAN GREEN, or Siberian.—A very popular variety. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.75.

KOHL RABI

If you have never grown Kohl Rabi, you should try it this year. It is a most excellent vegetable, intermediate between the cabbage and turnip. Cultivate like cabbage.

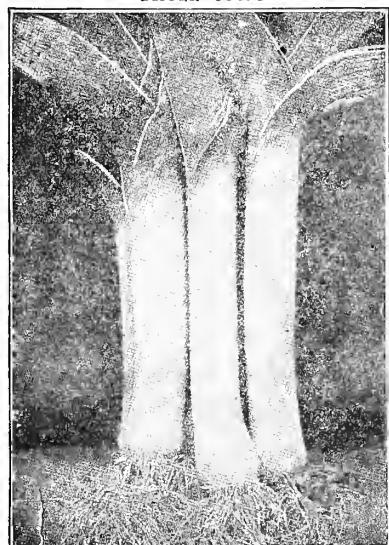
GOLIATH PURPLE.—A new sort of immense size, solid and sweet. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

EARLY WHITE VIENNA.—The flesh is white and tender and it is a good market sort. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

LEEK

Sow seed thinly in drills early in spring; thin out to stand six inches apart in the row. Early in the fall draw earth up about the stems as you would blanch celery.

LARGE ROUEN.—Largest and most uniform sort. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.25.



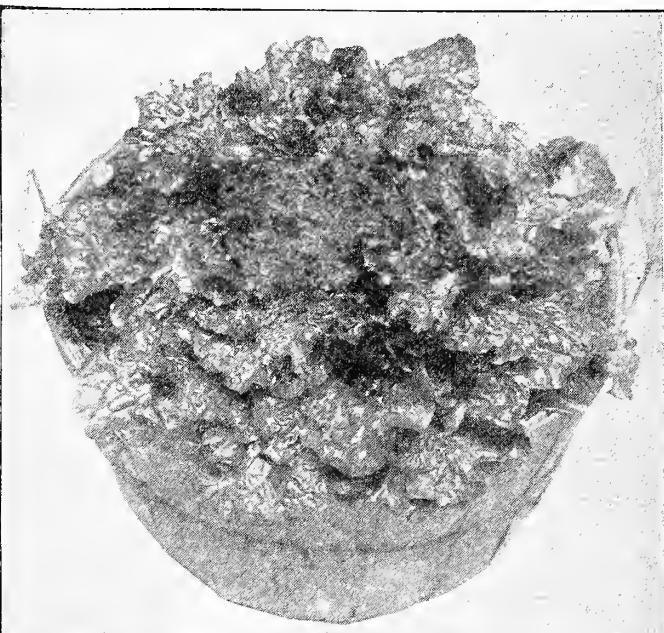
LARGE ROUEN LEEK

LETTUCE

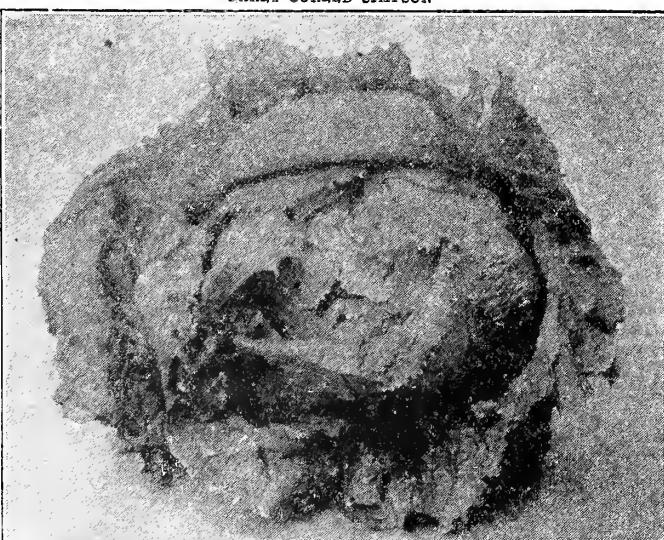
(One ounce will sow 100 feet of drill.)

Lettuce is the universal vegetable. Every garden contains it. Ready to use in its earliest growth it remains in fit condition for a long time. Quality depends upon quick and vigorous growth, so that the soil should be rich and strong. Bring it to the table fresh from the field and you will have far better lettuce than you can purchase in the market. There are four recognized types of lettuce. Perhaps the curled leaf open type is most popular in the middle west. This type includes such well known sorts as Grand Rapids, Early Curled Simpson, Black Seeded Simpson and Prize Head. The crisp head type makes rather good heads with curled and crimped leaves and is represented by the Hanson, Iceberg and Immensity. The smooth leaf cabbage headed type grow large and solid and are most liked for salads. We offer the best of this type, including the California Cream Butter, Relish or Big Boston, May King and Salamander. The Romaine or Coz lettuce is a distinct type, which grows close and compact and which can be blanched like celery. Sow in hotbeds in March and in the open ground as early as it can be worked, thinly in rows a foot apart if you expect to use it all quickly. Will require 18 inches between the row and six inches between plants if to be fully matured. You can, however, sow close in the rows and thin out as the plants grow to edible size.

GRAND RAPIDS



EARLY CURLED SIMPSON



IMMENSITY

GRAND RAPIDS.—A splendid loose leaf lettuce. In appearance it is attractive and striking, as will be noted by the photograph. It does not form a head but produces a large number of leaves of pale green color which are finely curled and crumpled. It retains its crispness and sweetness when old and in this respect it is not surpassed by any variety. Its popularity is based on both appearance and quality. The plant grows upright and the lower leaves are generally clear of the ground, so that they do not rot, and this feature makes it a favorite for forcing either in hotbeds or for winter growth in greenhouses. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

EARLY CURLED SIMPSON.—The oldest variety in the list and it still retains a leading place among the favorite varieties. It is the great variety for the backyard garden where only a small plot is available for the lettuce bed. Can be sown quite thickly and thinned out as used so that the later plants can have room to mature. Full grown plants sometimes attain enormous size as will be noted in the illustration of a single head which fills a bushel basket. It is not called a heading sort, but produces pale green, somewhat crumpled leaves and is usable in all stages of growth. Not generally used for forcing in hotbeds or greenhouses as the Black Seeded variety is preferred for that purpose. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

IMMENSITY.—An extra large, crisp head variety which will give satisfaction. Should be planted farther apart than ordinary sorts and given room to grow. Make rows 18 inches and thin plants to 6 inches in the rows. Cultivate and you will be delighted with the great loose heads of such splendid quality. Plant the common garden kinds for early use and for cutting before maturity, but use Immensity for succession. Sow early as any other sort. Will be a popular variety with consumers wherever introduced, and will prove a desirable sort for market gardeners. Grows strong and robust, but like all lettuces thrives best on good soil. Stands heat and does not run to seed quickly. It is truly a desirable lettuce. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.25.

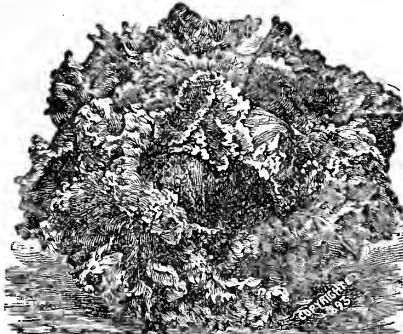
SALAMANDER.—This is the one head lettuce that can be recommended for summer growing. It can be grown successfully for early crop, but it will stand more heat with less loss of flavor and with greater certainty of heading than other kinds. It is an old variety to the trade, and has maintained its place in the list because no other has been found which will give like results under adverse conditions. The leaves are smooth, thick and light green. At maturity the heads are solid, creamy white inside, well blanched and of excellent quality. Equally desirable for home or market gardens. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.00.

I have been dealing with you for the past five years and always found your seeds very good, and I have great success with my garden. H. S. Morton, Aquasco, Maryland.

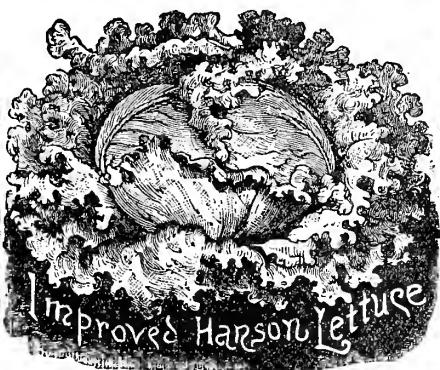
I received the seeds the other day and was much pleased with the quantity and I know the quality will be the same as ever. I have recommended your seeds to many people. We have always found them fine. My parents used your seeds 20 years, Mrs. E. H. Friend, Mason City, Iowa,

I wish to say we have used your seeds 15 years and have never had cause for complaint. A. O. Looney, Peirce City, Mo.

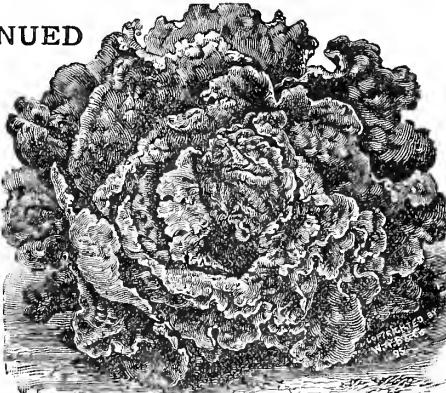
LETTUCE--CONTINUED



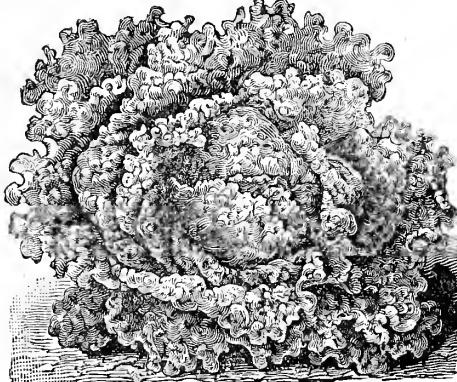
ICEBERG LETTUCE



Improved Hanson Lettuce



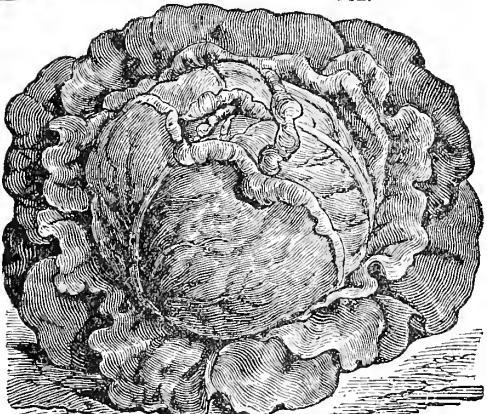
MAY KING LETTUCE



BLACK SEADED SIMPSON

IMPROVED HANSON.—As a head lettuce the Hanson has no superior, either for home use or for market. Makes the most solid large heads and is the surest to head of all lettuces. Stands heat well when grown out doors and does well in hothed or greenhouse. Can be used as a leaf lettuce but is such a splendid header that it should be given a chance to head. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

MAY KING.—A very early variety of head lettuce of compact growth. The inner leaves are a bright yellow, the outer ones a light green, sometimes slightly tinged with brown. It is extremely tender and brittle. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.



RELISH LETTUCE

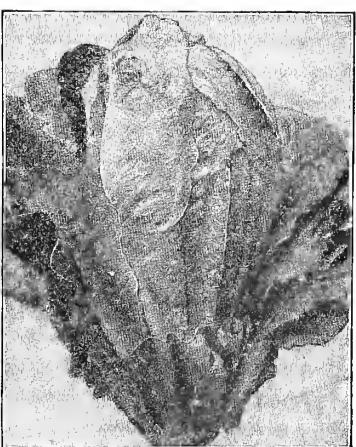


PRIZE HEAD LETTUCE

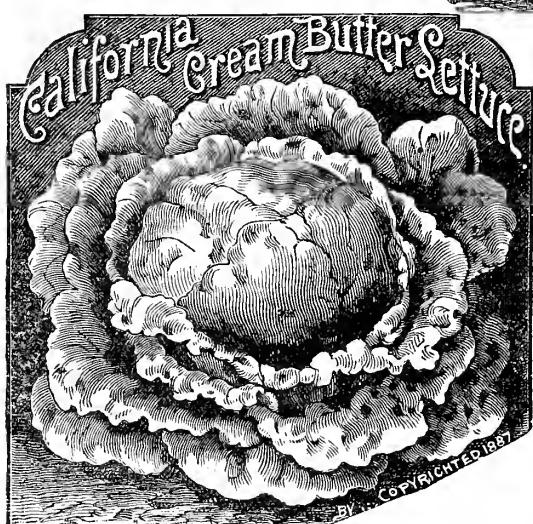
CALIFORNIA CREAM BUTTER.—A cabbage lettuce with round, solid head; outside medium green, slightly marked with small brown spots; within, leaves are very rich cream yellow color, rich and buttery to the taste. Heads good size, compact, very hard and solid. In California they eat the heart only, with a dressing of olive oil, vinegar, salt and pepper. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

ROMAINE.—Very popular where choice flavor is especially appreciated. Leaves are of rather light green color, shading to white when blanched. More self-folding than any other variety of cos lettuce, so it is not necessary to tie the leaves in order that it may blanch. Possesses a peculiar flavor, crisp and delicious. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c.

MIXED LETTUCE.—A careful and proportionate mixture of the above varieties, including the loose-leaf and heading types and a small proportion of the self-folding Romaine. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.



ROMAINE



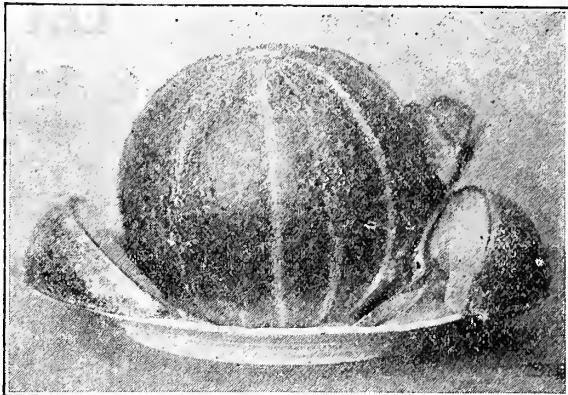
MUSK MELON

(One ounce will plant about 80 hills, 2 lbs. to the acre.)

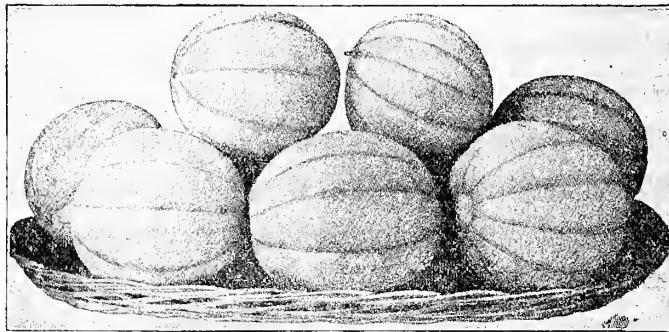
Musk melons require a rich, well drained soil. They will not grow where it is wet. Plant as early as safe from frost; cultivate until vines cover the ground. Usually planted in hills 4 to 6 feet apart. Use plenty of seed.

EMERALD GEM.—Finest in flavor and the earliest to ripen; too soft to stand shipping any great distance; unequalled for home use or nearby markets. Vines are strong and vigorous; very prolific. Rather small and flattened at both ends. Emerald green between ribs. Flesh very thick, crystalline appearance, of rich salmon color. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

BURRELL GEM.—A truly delicious melon for home use or will bring a fancy price on the market. Is about the same size and shape as Rocky Ford, but has rich, golden yellow flesh of most delicious flavor; solid and a most desirable shipping sort. The seed cavity is very small. Average about 6 inches long, $4\frac{1}{2}$ inches in diameter, and weigh $2\frac{1}{4}$ lbs. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.



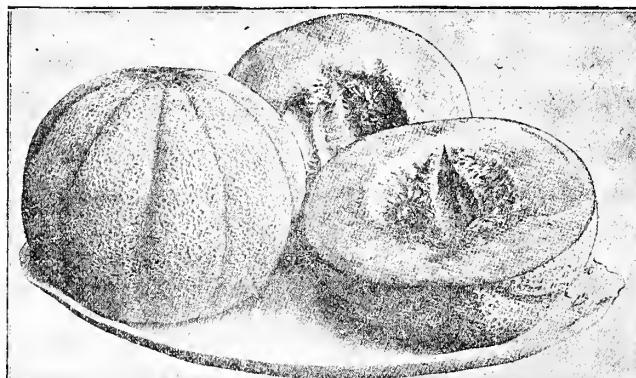
EMERALD GEM



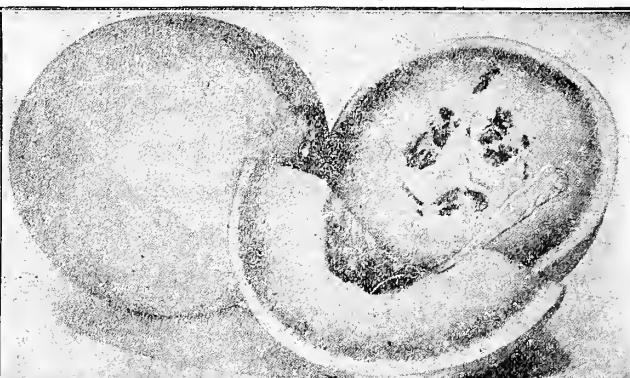
BURRELL GEM

HONEY DEW.—The picture is typical of its shape; the average size is about as large as a cocoanut, but the smaller sized melons are not inferior in flavor. Every melon is a good one. Flesh is light green and sweet as honey. The rind is straw yellow in color, smooth as an egg and hard as the rind of a winter squash. It is therefore a good shipper, is good right off the vine, and will keep good for months. In fact, it improves after picking. As a local melon, it advertises itself. The first one eaten creates a desire for more. The peddler will soon discover his customers asking for it. He must have it. Plant it in your home garden. It will afford you more pleasure than any other vegetable you have. But don't plant it near cucumbers. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50, postpaid.

I have planted your seeds for several years. My neighbors often compliment my garden. Will always speak a good word for your seeds.
Mrs. Harry D. Aldridge, Stanford, K.



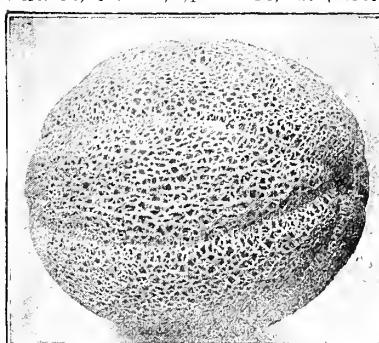
GRAND RAPIDS



HONEY DEW MELON

THOROUGHBRED ROCKY FORD.—This variety is in great demand by the high-class hotels and restaurants. Just the right size for table use, slightly oval in shape, flesh thick, of light green color, and fine, juicy, luscious flavor. Very early and wonderfully productive. Our seed is from the crop of the best melon grower at Rocky Ford, who grows the pedigreed stock of this sort. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

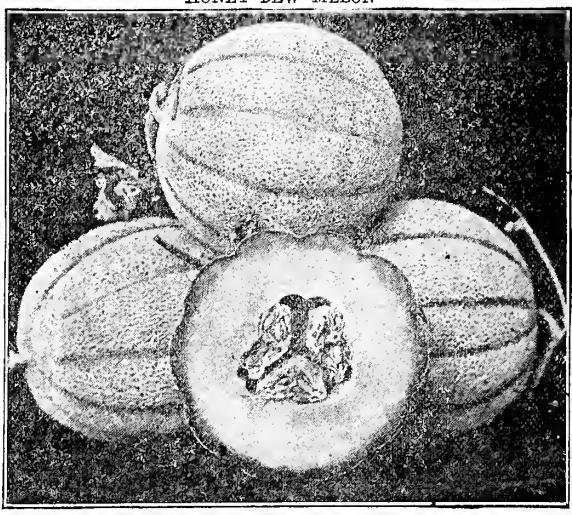
PAUL ROSE.—Named for its originator. A cross of Osage and Netted Gem, combining sweetness and flavor of the former with fine nettings and shipping qualities of the latter. Size about midway between the parent sorts, with salmon flesh. A splendid melon for hotel and restaurant trade. Peculiarly sweet, rich, delicious flavor and a long keeper. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.



BAY VIEW

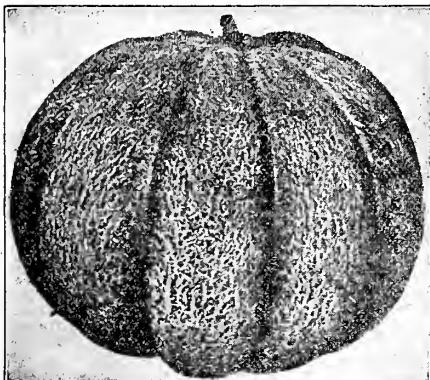
GRAND RAPIDS.—An extremely early variety. Flesh pure yellow to the rind, finely netted. Larger than the Rocky Ford type, averaging in size with Osage, but it is claimed to be the earliest of the larger sorts. Of handsome and attractive appearance and is of good quality. We recommend Grand Rapids as a market sort. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

BAY VIEW.—A fruit of large size, often 10 or 15 lbs. Deep ribbed and coarse netted. The best large, late maturing sort. Of good flavor, productive, with firm flesh, and does not rot quickly. Many customers want the old-fashioned type of large musk melon and we list the Bay View in deference to this demand, as we consider it the best of this type. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.



THOROUGHBRED ROCKY FORD

MUSK MELON--CONTINUED



EARLY HACKENSACK

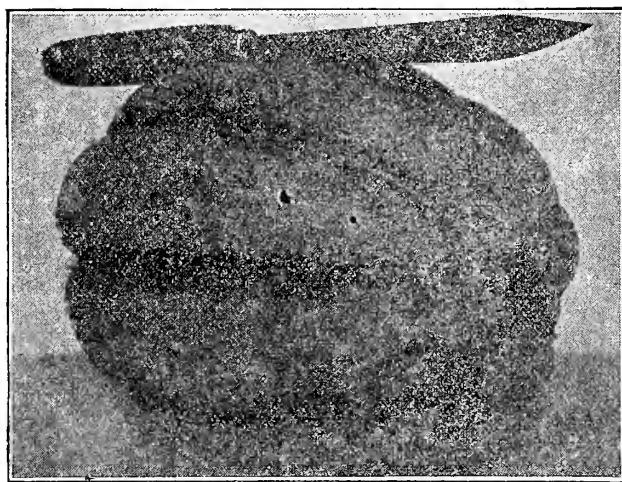
IMPROVED GREEN NUTMEG.—Greatly improved strain of old Green Nutmeg. Fruit of medium size, very rich and melting, of exquisite flavor; flesh is light green. Very productive. A standard sort for many years, and it is one of the best main crop sorts. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

IMPROVED EARLY HACKENSACK.—Largest early musk melon. Good quality, firm and heavy; deeply netted; flesh light green. Shape fine and is splendid market melon, as it ships well. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

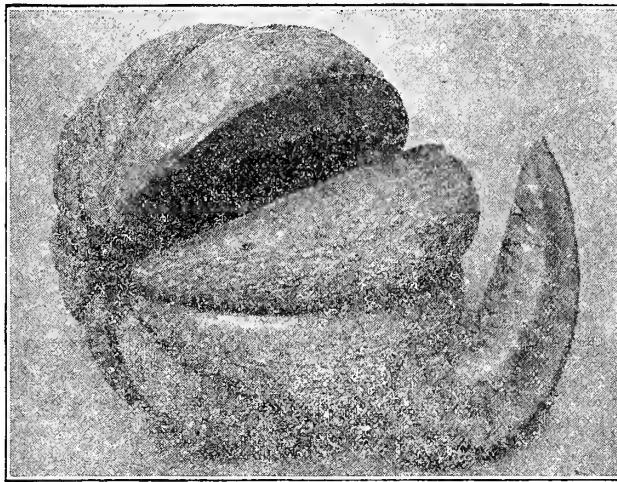
ENORMOUS.—A new musk melon growing to immense size. Oblong with wide fissures. It is well netted but the fruits are so large that the netting does not show as heavily on the smaller sized varieties. Specimens have been grown upward of 15 lbs. weight. The flesh is very thick, salmon colored and of better flavor than any other large melon. Pkt. 10c, oz. 25c.

TIP TOP.—(Orange Flesh.)—A fine, nearly round melon of such attractive appearance as to always sell quickly. It is sweet, juicy and delicious. Flesh firm but not hard, and is edible almost to the rind. Of medium to large size; evenly ribbed and moderately netted; strong grower, heavy yielder and handsome. One of the best of the orange flesh sorts. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.25.

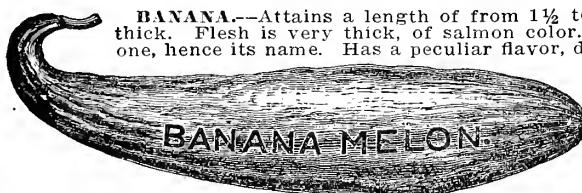
OSAGE.—One of the best melons for family use; greatly liked by gardeners. Flesh salmon color, sweet and spicy, very thick, and delicious to the rind. Seed cavity very small. It is seldom that one of poor quality is found. Medium size, oval, slightly ribbed. Skin thin, dark green color and covered more or less with shallow netting. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.25.



ENORMOUS



TIP TOP



BANANA MELON.

ing an appeal to all different tastes. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb.

CASABA MUSK MELONS

This is a class of very late maturing musk melons which do not ripen on the vines in the North, but are gathered before freezing weather and stored in a cool place and brought to a warm room for ripening.

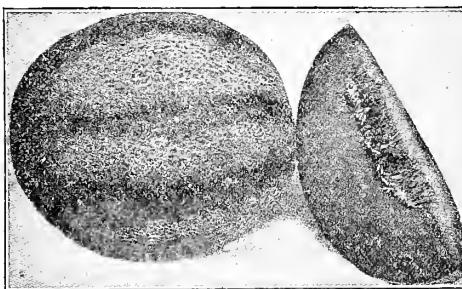
WINTER PINEAPPLE, or Santa Claus.—The original round form; green, the best keeper of all. Pkt. 10c, oz. 25c.

WHITE'S FAVORITE.—Is shaped like Winter Pineapple; a beautiful golden color when ripened. Best flavored of this type, but will not keep long. Pkt. 10c, oz. 25c.

MIXED MUSK MELONS.

A mixture of above varieties desirable for the diversity it offers, making

Pkt. 30c, lb. \$1.00.



OSAGE

MUSTARD

A pungent salad used for greens. Sow thickly in rows. One ounce will sow about seventy-five feet of drill.

OSTRICH PLUME.—Leaves are long, ruffled, frilled and curved gracefully as an ostrich plume; desirable for garnishing. Can be cut quite early. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.25.

SOUTHERN GIANT CURLED.—This is the true curled leaf variety so popular in the South for fall planting for early spring salad. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.25.

WHITE ENGLISH.—Seeds are white and is preferred by housewives for pickling on that account. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 45c, lb. \$1.00.



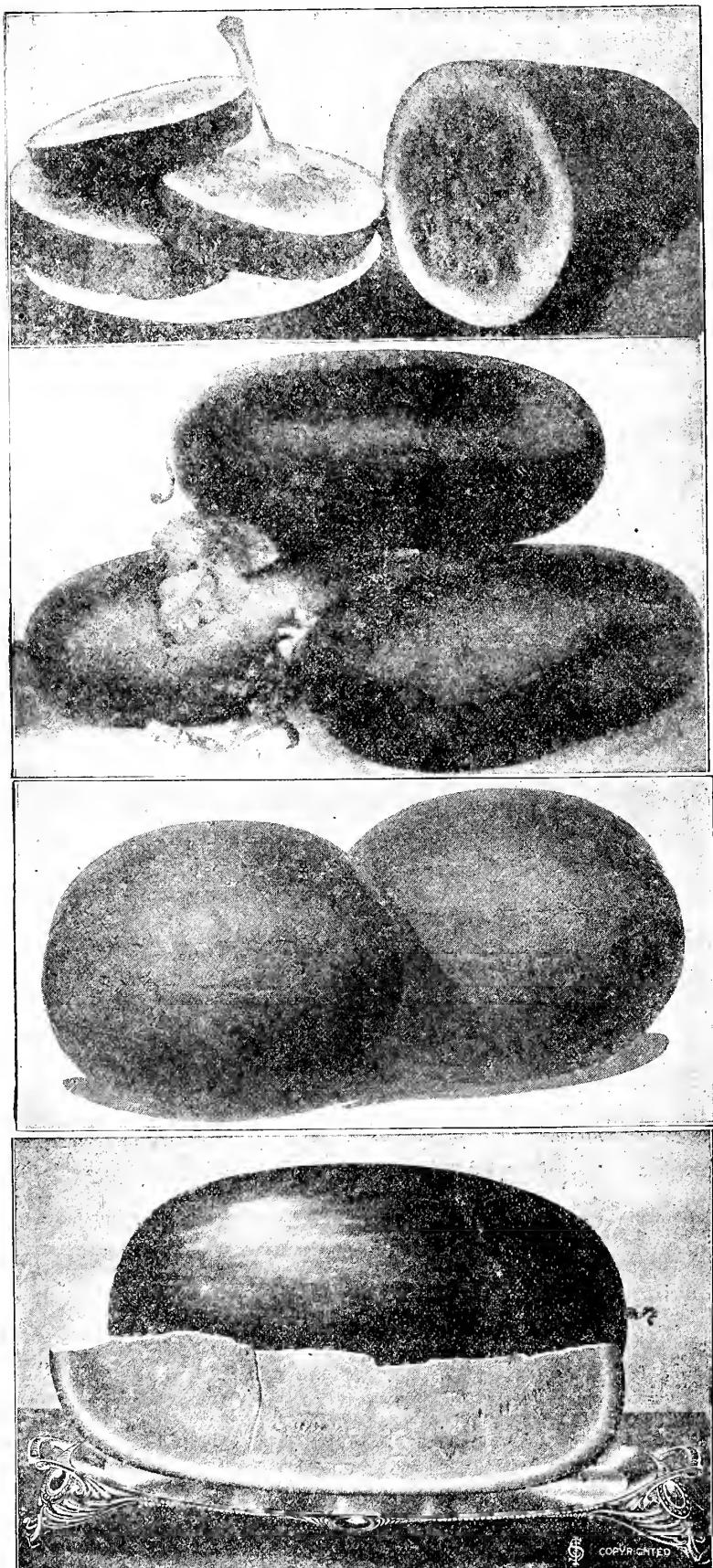
SOUTHERN GIANT CURLED MUSTARD

MUSHROOMS

The ease and certainty with which a crop of mushrooms can be grown and the astonishing success of so many who have taken up this new industry, induces us to call especial attention to the subject. We recommend mushroom spawn both for market garden and the private planter. Directions for culture sent on application. Per brick of 1 lb., by mail, 40c. By exp. or frt. not prepaid, 5 bricks \$1.25, 10 bricks, \$2.25, 100 bricks \$20.



MUSHROOMS



Reading from top to bottom; Excel, Tom Watson, Sweetheart, Golden Sweet

WATER MELON

(One ounce is required for forty hills; three pounds will plant an acre.)

A light sandy soil, with good exposure to the sun, is the best for water melons. It should be prepared deep, but receive shallow cultivation. Hoe often and thoroughly. Plant in hills 8 to 10 feet apart each way. Plant 8 to 10 seeds in a hill, and, finally, when danger of insects is past, leave but three strong plants. Thousands of melon growers depend on us annually for their seeds and are universally pleased, claiming that nowhere have they ever obtained seeds so pure and reliable. It pays to have the best. Packets contain about one hundred seeds.

NEW EXCEL.—(Cut No. 1.)—This new variety resembles the well known Monte Cristo, but is much larger in size, often growing to weigh 60 lbs. Similar in shape and color and will be taken for Monte Cristo by those who are not familiar with this new variety. Has all the melting, delicious sweetness of its prototype, and surpasses it in size, shipping qualities and market value. A splendid sort for both home and market. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.25.

TOM WATSON.—(Cut No. 2.)—A new variety destined to become a leader among melons, because of its quality and shipping excellence. There is no variety to our knowledge that combines both essentials as does this melon. Most sorts of extra quality are not tough enough to ship, and most shipping melons are too tough to excel in quality. The Tom Watson is a large, oblong melon, the skin of which is dark green, with thick netting on the entire surface, quite distinct from other varieties. It averages 18 to 24 inches long and 10 to 12 inches in diameter and it weighs 50 to 60 pounds. The rind is thin but tough and flesh a bright, attractive red color, crisp, sweet and delicious. The heart is large with no core. Seeds brown, tipped white. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.00.

SWEETHEART.—(Cut No. 3.)—Favorite Des Moines market sort. It is early, large, handsome, heavy, a good shipper, long keeper, of bright color and good quality. The fruit is large, oval, very heavy, uniformly mottled light green; rind thin but firm; solid, tender, melting and delicious. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.00.

GOLDEN SWEET.—(Cut No. 4.)—The Golden Sweet is a most delicious and fine flavored melon, unsurpassed for sweetness and aroma. Outside skin dark, shape oblong, as shown, size medium, a little larger than Monte Cristo, averaging about 20 lbs., just right for family use. Rind very thin but hard and will carry without cracking or bursting. Flesh golden yellow, solid, smooth, with few seeds. This is without exception the highest quality water melon in the list, and this is true of every melon in the field. We have never yet found a poor quality melon. Even the late fruits that ripen after frost kills the vines are excellent. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.

PEERLESS, or ICE CREAM.—(White Seeded.)—Very early, medium size, thin rind, flesh is bright scarlet. It is the great home market melon. Few sorts surpass it in melting, delicious quality. Color green, slightly mottled, shape oblong to round, and appearance attractive. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

MOUNTAIN SWEET.—The old standard, is still quite popular in the North, where large fruited southern sorts do not ripen. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

CITRON MELONS

Nice for preserving and largely used for this purpose.

APPLE PIE.—A novelty which will be appreciated in many parts of the country. Illustrated on page 37 of this catalogue. Vine and fruit quite similar to a water melon and are easily grown on any good soil. Each vine produces from 5 to 15 fruits and one of the large size will make as many pies as a half bushel of apples. The flesh is white, solid throughout and of excellent quality for making pies, preserves, etc., and resembles apples in flavor. They keep nice and fresh all winter, so they can be used any time and any surplus can be fed to the live stock. Pkt. 10c, oz. 25c.

COLORADO PRESERVING.—This is a large fruiting strain of citron for preserving. The flesh is clear white and very solid. Green seed. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

RED SEEDED CITRON.—Is round, dark green, striped and mottled with light green. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.



COLE'S EARLY

MCIVER'S SUGAR

FORDHOOK EARLY

IMPROVED TRIUMPH

WATER MELON--C CONTINUED

COLE'S EARLY.—Decidedly the finest variety for the private garden, but is too brittle for long shipment. It is very early and will mature farther north than most other sorts. Of medium size; very productive. Flesh bright red, of granulated, sparkling appearance. In flavor lusciously sweet and refreshing. One of the best early melons and is specially valuable for growing for home market. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

MCIVER'S WONDERFUL SUGAR.—This is a famous melon for sweetness and high quality. The fruits are long and of large size, averaging about 50 lbs. each. Is considered one of the handsomest melons, being rather light colored, irregularly striped and mottled with dark green. Rind is rather thin but tough; a good shipper. Flesh is delicate light red, entirely stringless and tender, and juicy and luscious. Vine is a strong, vigorous grower, very prolific and withstands extremes of weather, either wet or dry. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

FORDHOOK EARLY.—Large early variety. From seeds planted May 10th, ripe melons have been produced the last of July. The rind is tough, making it valuable for shipping. Color is uniform medium green; flesh red, very sweet, solid, and of excellent quality. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

IMPROVED TRIUMPH.—Is undoubtedly the largest of all melons, having been grown to the extraordinary weight of 147 lbs. Very productive. It is of dark green color, matures in good season, flesh dark red, solid, and of excellent quality. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

MONTE CRISTO, or Kleckley's Sweets.—A wonderfully popular variety everywhere. After testing all varieties of melons, we do not hesitate to pronounce this one of the sweetest, juiciest, most delicious melons, faintly striped, flesh bright red and peculiarly rich, crisp and pleasant flavored. It ripens early, is of good size, is a good shipper and a long keeper. Market gardeners will also be pleased with it. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.25.

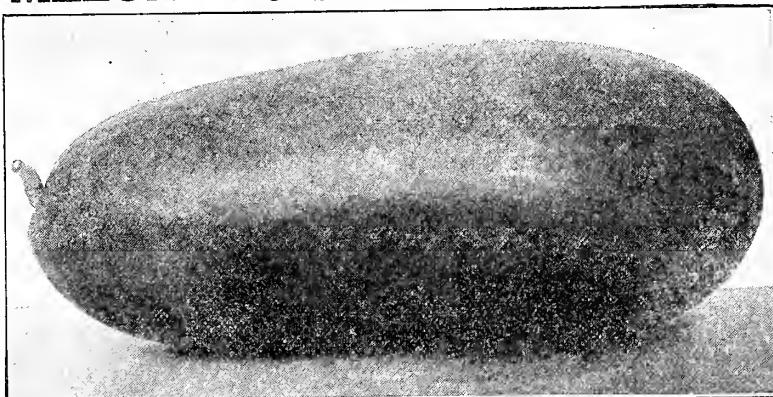
HALBERT HONEY.—The aristocrat among water melons. A very early variety; medium size; fine, oblong shape; very prolific and even size; skin handsome dark green; flesh a rich crimson, fine grained, melting and exquisite flavor. Has no superior as a home or near by market melon but rind is too thin to stand much handling. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.25.

FLORIDA FAVORITE.—Shape and color well shown in the illustration above. It is a real favorite because of sweetness and fine texture. It is of large size and attractive appearance and is popular both for home use and market selling. Solid and heavy and ships well. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

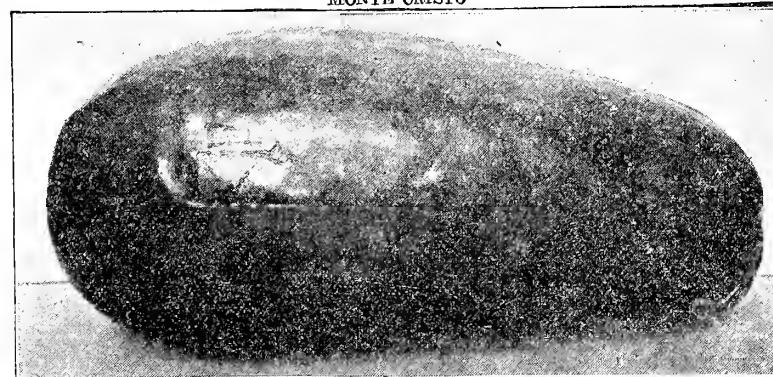
My friend wanted me to refer her to some good seed company and I knew of none better than yours.—Mrs. L. J. Martin, Cushing, Oklahoma.

I was very much pleased with your seeds, both last year and the year before, and expect to succeed with them this summer.—Mrs. J. J. Kindle, Metuchen, New Jersey.

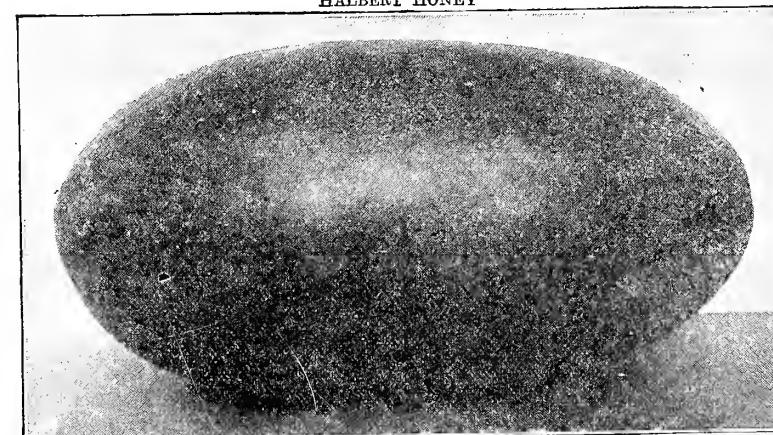
We have just received our order of garden seeds and are very well pleased with them.—J. S. Margin, Guthrie Center, Iowa.



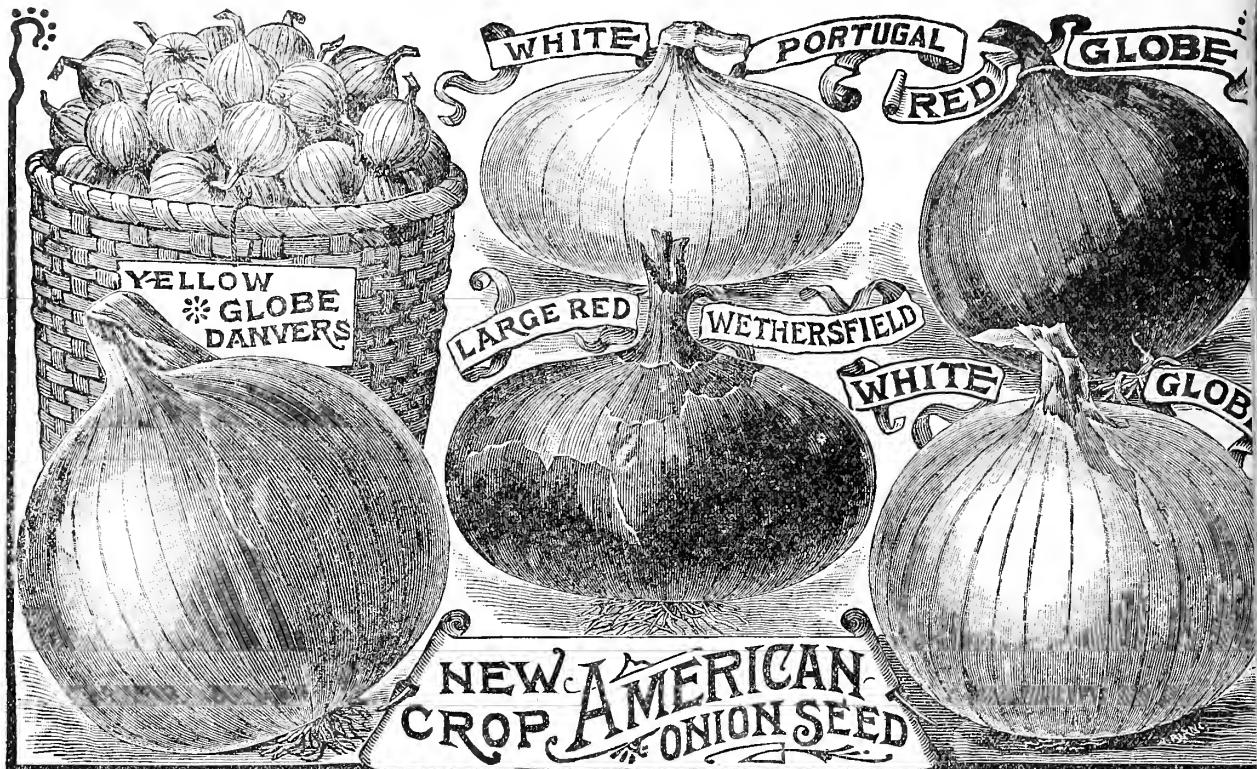
MONTE CRISTO



HALBERT HONEY



FLORIDA FAVORITE



Good onion seed is of the utmost importance as it is one of the most important crops grown, and there is no other vegetable where the quality of the seed exerts a greater influence upon the crop than onions. There is more money in onions grown from seed than almost any other crop. Fully realizing this, we have for many years made a specialty of onion seed which is all grown from choice, selected bulbs, critically examined before being set out for seed. In vitality it is very strong, being carefully tested, and we are sure that **OUR ONION SEED CANNOT BE EXCELLED** in purity, vitality or high quality. Large onions can easily be grown the first year from the seed by obtaining our American grown onion seed. The crop was short this year, and prices may advance. In comparing our prices with others, remember that we **PAY THE POSTAGE**. Deduct ten cents per pound if to be sent by express. Ask for prices in large lots.

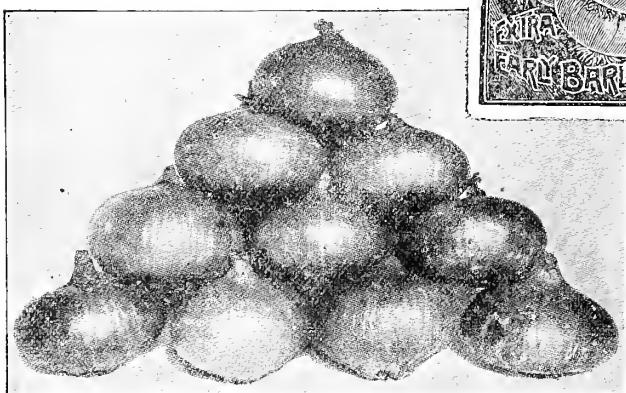
LARGE RED WETHERSFIELD.—Is the standard sort throughout the country, the easiest to grow and the surest to make a good crop, being hardy and not subject to decay in very hot or wet weather. Of finest form, skin deep purplish red. The flesh is purplish white, and finer grained than many of the red sorts. Our seed is extra select. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, 1lb. \$3.50.

EXTRA EARLY RED.—Matures very early. It is of medium size, flat shape, deep red in color; very close grained, solid and heavy. Will often form bulbs in cold and mucky soils where other varieties fail. It is recommended particularly for the North and Northwest where seasons are short and cool. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.25, 1lb. \$4.00.

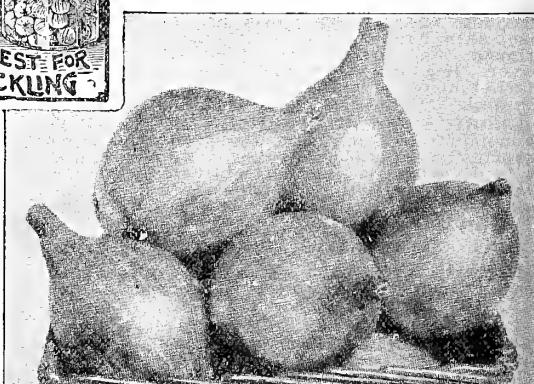
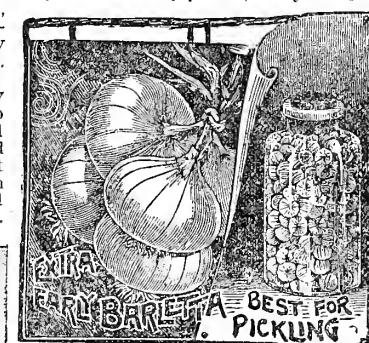
CULTURE.—One ounce will sow about 100 feet of drill, pounds will sow one acre. The soil for onions should be rich loam thoroughly enriched with well-rotted manure and pulverized before sowing the seed. It should be as free from weeds and grass as possible. As early as the ground can be worked in the spring, sow the seed in drills 14 inches apart, covering one-half inch. Commence hoeing as soon as the rows can be seen; skim the ground over the surface; and stirring deeply, and work the soil away from the bulbs. Second hoeing weed carefully and thoroughly by hand. For pickles or sets the seed should be sown very thickly and broad drills, about 50 pounds to the acre for sets, and 15 to 20 pounds for pickling. For sowing seed and cultivating the crop it will pay you to purchase a good drill and hand cultivator. See description elsewhere. Lang's Hand Weeder, price 30c, postpaid, is the best hand weeder made.

YELLOW GLOBE DANVERS.—Handsome, globe-shaped sort of large size, yellow skin, white flesh, fine grain, mild, very firm and the best of keepers. Has yielded 1,000 bu. per acre. It is a standard variety and is generally popular. Our strain of exceptional quality for yield, soundness, and even size and shape. We grown Danvers will bring the top price Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, 1lb. \$3.50.

EXTRA EARLY BARLETTA.—Is a distinct variety; the very earliest onion in cultivation. They are of a pure pale white color, very delicate in flavor, and in size grow 1 to $1\frac{1}{2}$ inches in diameter. For table use and pickling is most valuable. Pkt. 15c, oz. 55c, $\frac{1}{4}$ lb. \$2.00, 1lb. \$6.00.

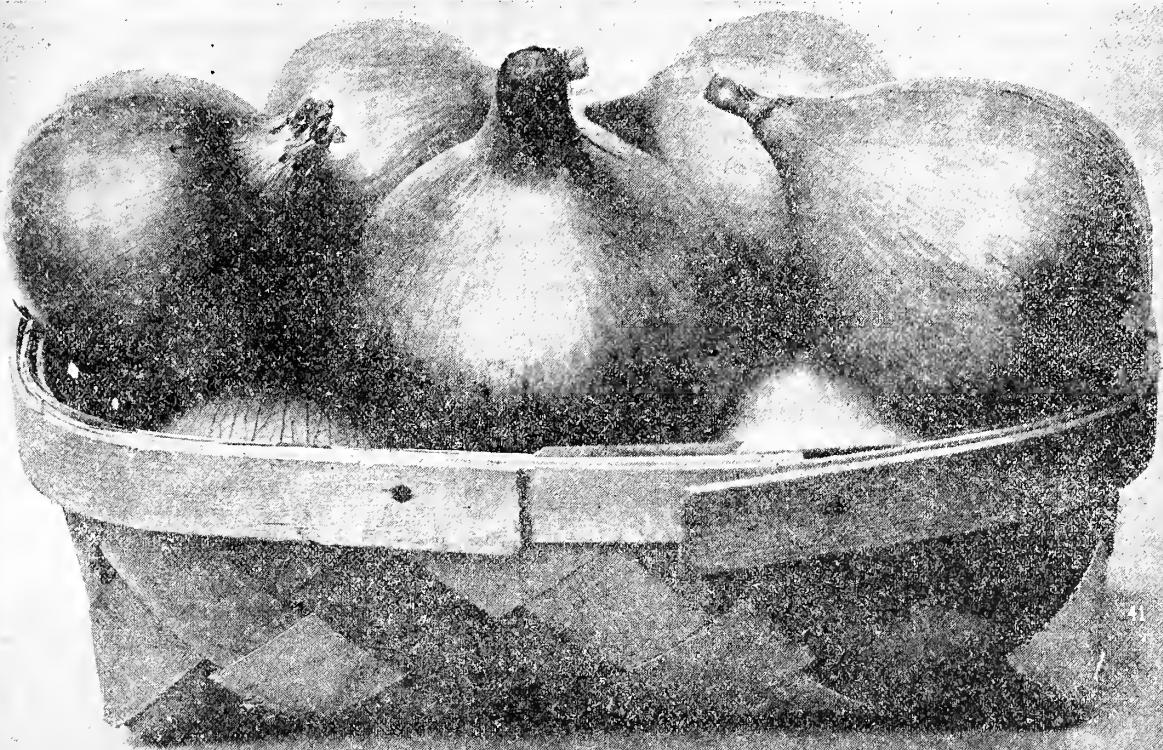


ONION
SETS
ARE
LISTED
ON
PAGE
24.



EXTRA EARLY RED

YELLOW GLOBE DANVERS



GOLDEN GLOBE ONIONS

ONIONS—CONTINUED

GOLDEN GLOBE.—Offered by us as the very best yellow-globe-shaped onion for general culture. We prefer it to red varieties because it is of mild flavor and much more handsome. Always uniform in shape, size and color. Entire crop looks like selected onions. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

SOUTHPORT RED GLOBE.—Very handsome variety and is deserving of general cultivation. It is medium early (none of the perfectly globe-shaped onions are as early as the flat varieties), grows to a large size, skin deep red, flesh fine grained, mild and tender. They require better soil and cultivation than the flat varieties. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.10, lb. \$3.75.

WHITE PORTUGAL OR SILVER SKIN.—Standard white variety for general culture. Bulbs grow flat to good size, ripening early and quite evenly. Flesh mild and sweet; skin a clear silvery white, of very handsome appearance. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.00.

LARGE WHITE GLOBE.—The handsomest market variety, beautiful, clean, pure silvery white bulbs of large, even size, globe shape, mild and pleasant flavor. The best white sort. Very productive. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.00.

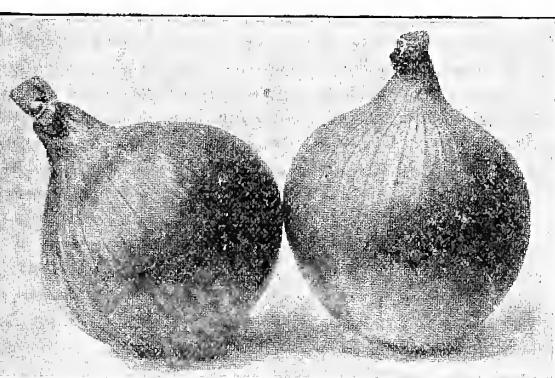
MAMMOTH PRIZETAKER.—The hardest and most easily grown of the giant onions. Grows to mammoth size and matures perfectly in this latitude. It is very solid, fine grained and keeps well. It is of clear straw color, uniformly globe shaped and produces immense crops. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.00.

MAMMOTH SILVER KING.—The largest white onion. Of attractive form, flattened, but thick, as illustrated. Often weigh from $2\frac{1}{2}$ to 4 lbs. each. Beautifully silvery white; flesh snowy white, sweet and tender and can be eaten raw. Matures early. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.50, lb. \$5.00.

AUSTRALIAN BROWN.—Color is peculiarly clear amber brown, quite distinct from any other variety. It is one of the best in keeping qualities, and grows to large size. The distinct color is an advantage in many markets, while for home use it is the equal of any. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.25.



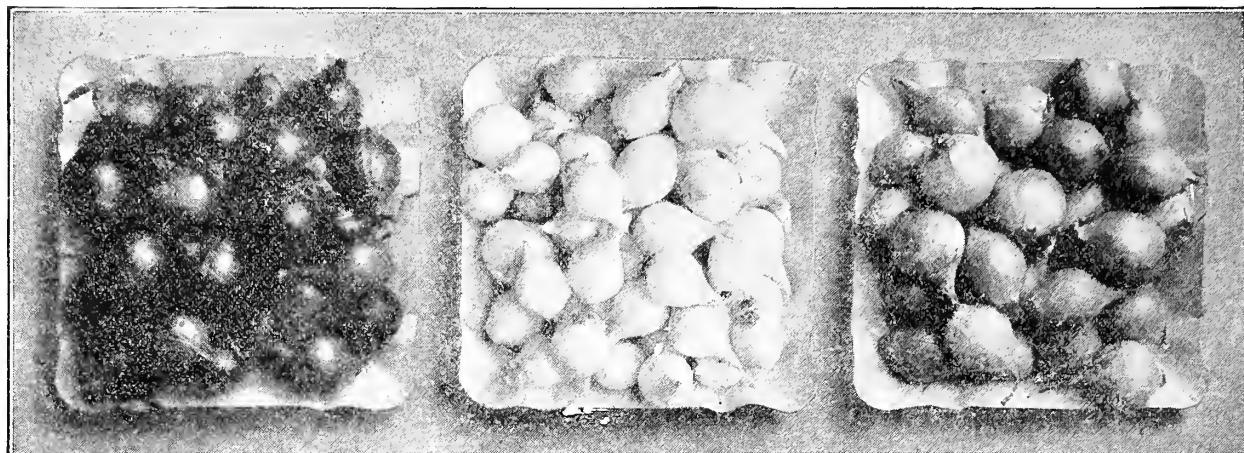
AUSTRALIAN BROWN



MAMMOTH PRIZETAKER



MAMMOTH SILVER KING



RED, WHITE AND YELLOW ONION SETS FROM SEED

ONION SETS

For early onions for bunching; ready for the table in a very few weeks. Is cheaper to grow from seed but is considerable work to weed, and many prefer to buy sets. Price per pound includes postage; deduct 10c per pound if by express. Three pounds and larger lots shipped at buyer's expense. Legal weight of top sets 28 lbs. per bushel; other kinds 32 lbs. so that 1 lb. equals 1 quart. Write for prices for large lots.

WHITE BOTTOM SETS.—White onion sets from seed are best for early use and large onions. $\frac{1}{2}$ lb. 20c, lb. 40c, postpaid; not prepaid, 3 lbs. 75c.

RED BOTTOM SETS.—Are like the white, except that they are of dark red color. Very hardy. $\frac{1}{2}$ lb. 20c, lb. 35c; not prepaid, 3 lbs. 65c.

YELLOW BOTTOM SETS.—Like the white, except color. More used than any other kind. $\frac{1}{2}$ lb. 20c, lb. 35c; not prepaid, 3 lbs. 65c.

POTATO ONION SETS.—A species of Multiplier Onion, increasing from bulb; early; matures quickly; mild. $\frac{1}{2}$ lb. 20c, lb. 35c; not prepaid, 3 lbs. 65c.

SUMMER TOP SETS.—Commonly known as Button Onion Sets. $\frac{1}{2}$ lb. 20c, lb. 40c; not prepaid, 3 lbs. 75c.

PERENNIAL, or Winter Sets.—Also called Egyptian or Tree Onions. Usually set in fall; produce earliest spring onions without winter protection. Do not make large bulbs. $\frac{1}{2}$ lb. 15c, lb. 25c; not prepaid, 3 lbs. 55c.

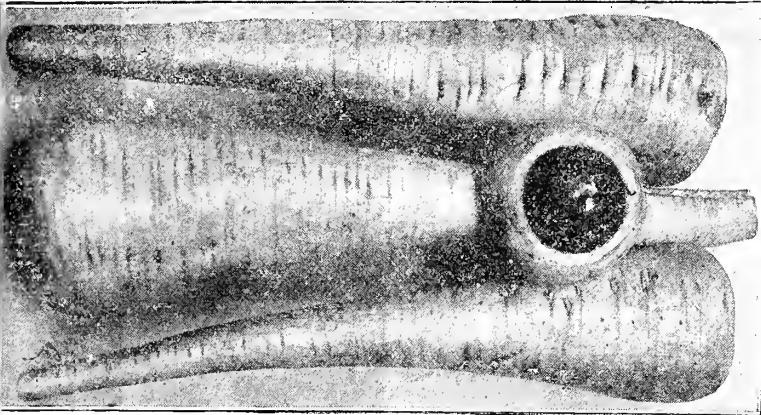
PARSNIP

(One ounce will sow 200 feet of drills. Five pounds will sow an acre in drills.)

Sow early in spring in good, rich soil, which has been plowed deep, in drills 15 inches apart, covering half an inch. Thin to 5 or 6 inches apart in rows. They are improved by freezing.

IMPROVED TABLE GUERNSEY.—A greatly improved and wonderfully fine strain of the Guernsey Hollow Crown Parsnip. The roots do not grow as long as the Hollow Crown, but are of greater diameter and more easily gathered. Very heavy cropper; roots are smooth with a deep, hollow crown and a small top. Flesh fine grained, sweet and of excellent quality; cooks evenly, center being as fine, soft, even quality as outside portions. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$2.00.

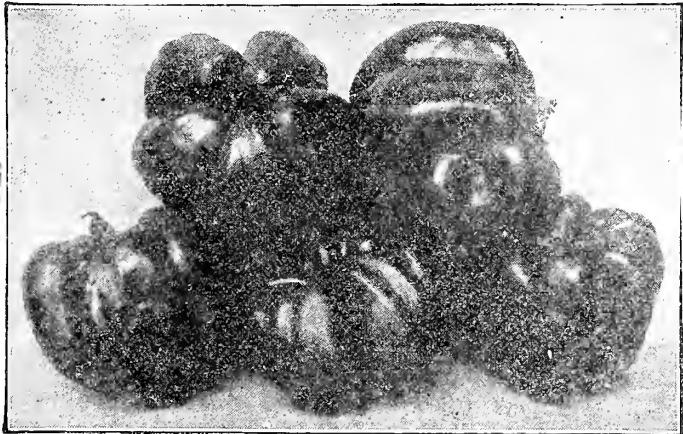
IMPROVED HOLLOW CROWN.—This greatly improved strain is smoother and of more even quality than the original; fine grained and excellent. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c.



HOLLOW CROWN PARSNIP



PIMENTO PEPPER



RUBY KING PEPPER



PIMENTO PEPPER

PEPPER

(One ounce will produce about 1,800 plants.)

Sow seed in hotbed early in spring; transplant to open ground when the weather is favorable, in warm, mellow soil, in rows 18 inches apart. Seeds germinate slowly and require considerable heat.

CORAL GEM BOUQUET.—(Cut No. 1.)—This new red hot pepper is the finest of the smallest sized varieties. Excellent for pepper sauce. Nice for mixing picilli. Pkt. 10c, oz. 60c.

RUBY KING.—(Cut No. 2.)—Very large in size, $4\frac{1}{2}$ to 6 inches long by $3\frac{1}{2}$ to 4 inches thick. When ripe are beautiful bright ruby red and always remarkably mild and pleasant to the taste. Produces large, handsome fruit and is splendid for stuffed peppers or mangoes. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$2.00.

CHINESE GIANT.—(Cut No. 3.)—Most gigantic of all Giant Peppers. A fine mild red pepper of enormous size, magnificent appearance and brilliant, glossy scarlet color. The flesh is mild and unusually thick. Makes an excellent salad. Pkt. 10c, oz. 75c, $\frac{1}{4}$ lb. \$3.00.

KALEIDOSCOPE.—(Cut No. 4.)—A very ornamental new sort. The small fruit changes from cream color to canary, deepens to orange then turns into pink, until it becomes a deep, shining scarlet. Pkt. 10c, oz. 75c.

JAPANESE FANCY.—(Cut No. 5.)—A very ornamental variety, bearing little heart-shaped fruits of various colors, purple, white, yellow, orange, red, all on same bush. Fruits are edible, of mild flavor. Pkt. 10c.

LARGE BELL, or Bull Nose.—(Cut No. 6.)—The standard variety for mangoes or sweet pickle. Fruits large, uniform, thick meated and smooth, very pleasant mild flavor; prolific yielder; early. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$2.00.

RED CHILI.—(Cut. No. 7.)—Small, long fruit, but very hot. Used for pepper sauce. Pkt. 10c, oz. 60c, $\frac{1}{4}$ lb. \$2.25.

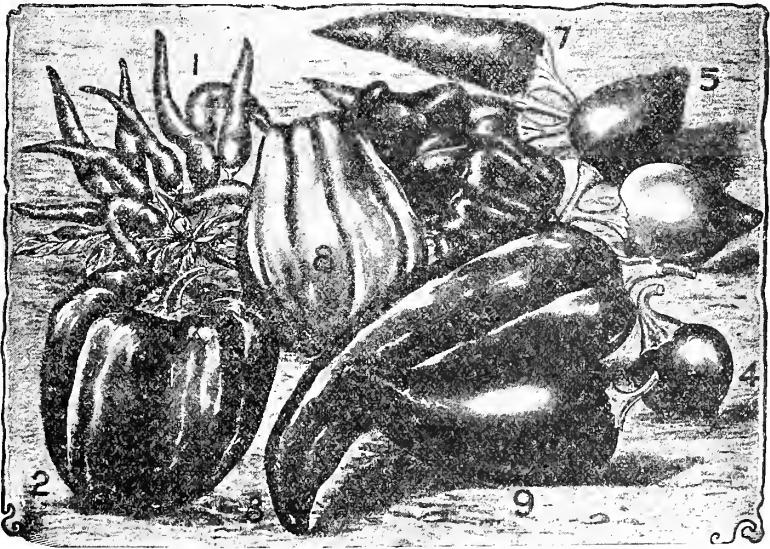
MAMMOTH GOLDEN QUEEN.—(Cut No. 8.)—Average a third larger than Ruby King. Is 8 to 10 inches long; bright, waxy, golden yellow and mild flavor. A favorite variety for mangoes. Pkt. 10c, oz. 75c, $\frac{1}{4}$ lb. \$3.00.

SWEET MOUNTAIN, or Mammoth.—This pepper is in shape similar to Large Bell, but fruits are much larger and not nearly so pungent. Splendid sort for making stuffed pickle. Has been a standard large pepper for many years. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$2.00.

RED CAYENNE.—Pods long and slim, of medium size. Pungent. Used for pepper sauce. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$2.00.

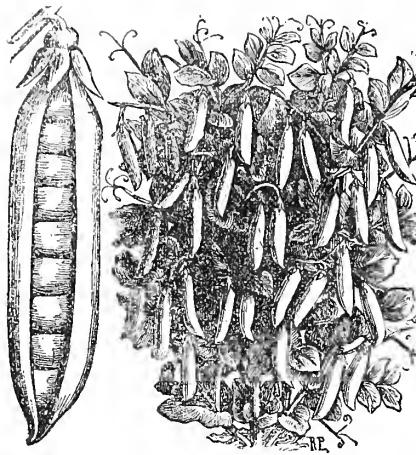
MIXED PEPPERS.—A choice mixture of all the above and several other fancy varieties. Fine for exhibition. Pkt. 10c, oz. 50c.

PIMENTO.—(Cut No. 9.)—This is a new and distinct pepper. Perfectly sweet, having no trace of pungency. Plants are loaded with fine, perfectly smooth fruits, medium size and thick meated. Pkt. 10c, oz. 50c.



PEPPERS. Refer to numbers for description.

PEAS



IOWA CHALLENGE.

pods are rather small, dark green color, well filled; the earliest pea known, being two days earlier than the First and Best, and 90 per cent of pods can be gathered at first picking. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, 3 lbs. \$1.00, 10 lbs. \$3.00, 25 lbs. or over at 30c per lb.

IOWA CHALLENGE.—Extra early variety of superior merit which is a favorite with Des Moines gardeners. We can in confidence say that after a trial of nearly all extra early varieties we have not found one possessing more merit, hence its name. For the market gardener it has no superior. Is not only extra early and prolific, but of good flavor. All good qualities of Extra Early are most nearly brought to perfection in the Challenge. Height 18 inches. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, 3 lbs. \$1.00, 10 lbs. \$3.00, 25 lbs. and over at 30c per pound.

FIRST AND BEST.—A well known standard early pea. Ready to use several days before the early wrinkled varieties. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, 3 lbs. \$1.00, 10 lbs. \$3.00, 25 lbs. and over at 30c per lb.

I have been ordering garden seed from you for several years and have had no occasion to complain with results obtained in any case. —H. H. Howard, Canton, Missouri.

I have bought my garden and flower seeds from you for several years. They have always given satisfaction; every packet is true to name, and are large and well filled.—Mrs. T. W. Humphries, Natasulga, Alabama.

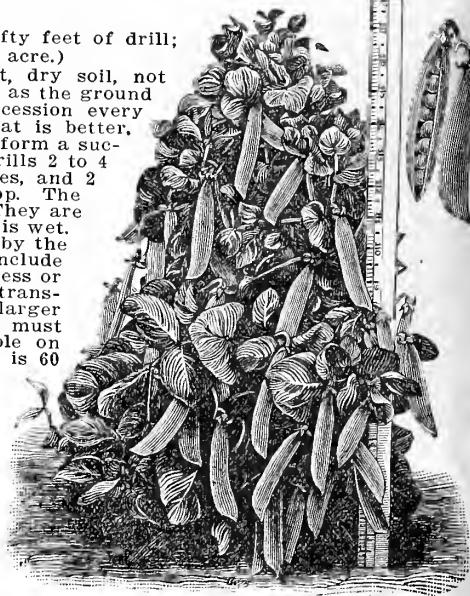
(One pound will plant about fifty feet of drill; 2 to 3 bushels per acre.)

Peas mature quickest in light, dry soil, not too rich. May be sown as early as the ground can be worked, and for a succession every two weeks up to July; or, what is better, select several kinds which will form a succession in maturing. Sow in drills 2 to 4 feet apart, according to varieties, and 2 to 3 inches deep for general crop. The wrinkled sorts are marked *. They are more liable to rot if the ground is wet. We are this year offering peas by the pound and the pound prices include postage. Larger lots go by express or freight at customer's cost for transportation. If you want the larger lots to come by parcel post you must send postage as shown by table on page 2. The Iowa legal weight is 60 lbs. per bu. Pkts. hold 2 oz. each.

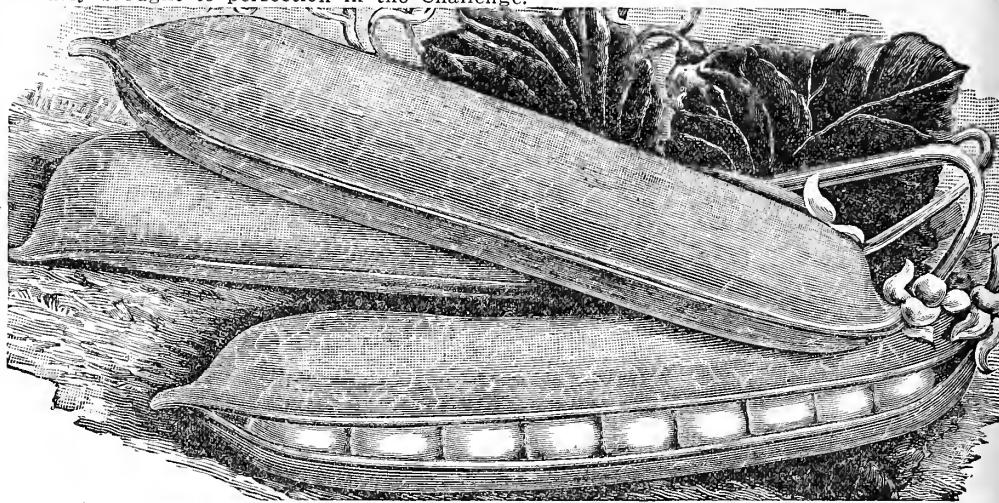
EXTRA EARLY SMOOTH VARIETIES

ALASKA.—Height 2 feet; the

peas are round, smooth, and very large. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, 3 lbs. \$1.00, 10 lbs. \$3.00, 25 lbs. or over at 30c per lb.



PREMIUM GEM.



GRADUS, OR PROSPERITY.

EARLY DWARF WRINKLED VARIETIES

***LITTLE MARVEL.**—A strong vine about 15 inches high, bearing tremendous crops of fair size pods, frequently borne in pairs. Pods 2½ to 3 inches long, containing six to seven large, deep green peas. As early as American Wonder, more productive, and will be preferred by gardeners generally because of extra quality. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 50c, postpaid. Not prepaid, 3 lbs. \$1.20, 10 lbs. \$4.00, 25 lbs. and over at 40c per lb.

***LAXTONIAN, or Pioneer.**—This variety is the finest of the very large podded, early wrinkled peas. Vine is not quite so long as Gradus but the pods are fully as large as those of that variety and there are twice as many of them. Both pods and peas are a rich, dark green in color and retain this rich color when cooked. This is the most satisfactory variety we had on our trial grounds last season. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 55c, postpaid. Not prepaid, 3 lbs. \$1.30, 10 lbs. \$4.20, 25 lbs. and over at 40c per lb.

***AMERICAN WONDER.**—Popular extra early variety for family garden. Cannot be planted quite as early as smooth sorts; will not stand as much cold, wet weather but is far superior to them in flavor and table qualities. Dwarf, robust habit, growing about 10 in. high; produces a profusion of good-sized, well-filled pods of finest flavored peas. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, 3 lbs. \$1.00, 10 lbs. \$3.30, 25 lbs. and over at 32c per lb.

***PREMIUM GEM.**—This has been for many years the standard dwarf wrinkled pea for the family garden, and is also popular with market gardeners. It only grows 12 to 15 inches high and requires no support. Pods large dark green, and quality of the peas is excellent. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, 3 lbs. \$1.00, 10 lbs. \$3.30, 25 lbs. and over at 32c per lb.

***GRADUS, or Prosperity.**—This remarkable pea is not only large and of best quality, but it is nearly or quite as early as the small, round, extra early sorts. It is a wrinkled pea with the vine growing about 20 inches high. Pods are bright green color and measure 4 inches or more in length, well filled with luscious peas. Of highest table quality. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 55c, postpaid. Not prepaid, 3 lbs. \$1.30, 10 lbs. \$4.20, 25 lbs. and over 40c lb.

***NOTT'S EXCELSIOR.**—Is fully as sweet and delicious as American Wonder and grows one-half taller. Pods are larger and it is far more productive than the Premium Gem. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, 3 lbs. \$1.00, 10 lbs. \$3.30, 25 lbs. and over 32c per lb.

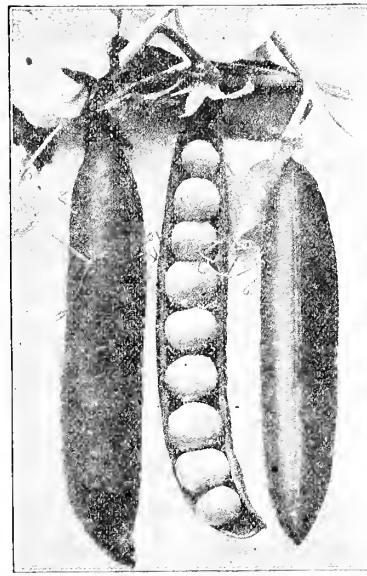




TELEPHONE



STRATAGEM



DWARF CHAMPION

PEAS--CONTINUED

SECOND EARLY AND MAIN CROP VARIETIES

This class of peas all grow vigorously and should have support of some kind. Some of these, like the Dwarf Champion or Everbearing, will give fair results when not given a support, yet it pays to provide some kind of support, they will yield very much more and are so much easier to pick. Where brush cannot be had, poultry netting fence makes a neat and cheap support, as it can be rolled up and used many times. See price in back part of catalog.

DWARF CHAMPION.—Splendid main crop variety; bears in fusion of good sized, well filled pods; vines seem less affected by mildew than most late peas; make a sturdy growth 4 feet tall. Very prolific; quality excellent. Much used by market gardeners. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 55c, postpaid, prepaid, 3 lbs. \$1.40, 10 lbs. \$4.40, 25 lbs. or over 40c per lb.

EVERBEARING.—Fine for main crop. Grows about 2 ft. tall, strong and vigorous, branches freely; does well without support. Continues to grow and produce pods a long time if pods are kept picked as they grow. Both pods and vines of good size. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid, prepaid, 3 lbs. \$1.05, 10 lbs. \$3.50, 25 lbs. or over 35c per lb.

CHAMPION OF ENGLAND.—Well known standard sort; vines 4 to 5 ft. high and requires support, but fine quality. Large crop produced more than repays any extra labor required. A strong, vigorous grower and continues to bear a long time. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid, prepaid, 3 lbs. \$1.05, 10 lbs. \$3.50, 25 lbs. or over 35c per lb.

MCLEAN'S ADVANCER.—A second early, growing 2 $\frac{1}{2}$ to 3 ft. high. Very prolific and quality is excellent. A general favorite for private planting. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, 35c, postpaid. Not prepaid, 3 lbs. \$1.25, 10 lbs. \$4.00, 25 lbs. or over at 40c per lb.

***IMPROVED STRATAGEM.**—Most popular late variety for market or family use. Preferred because of the immense size of pods and peas and exceptional sweetness and tenderness. Half dwarf sort, 2 to 3 ft. high. Is a vigorous grower and an enormous cropper. Pods contain 7 to 9 large peas. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 55c, postpaid. Not prepaid, 3 lbs. \$1.25, 10 lbs. \$4.00, 25 lbs. and over at 40c per lb.

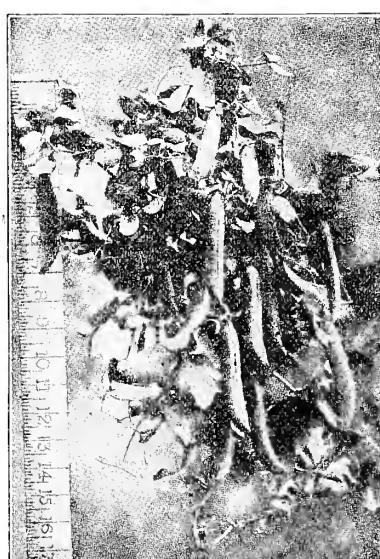
DWARF WHITE MARROWFAT.—An improvement on the old Large White Marrowfat. Fully as productive, but does not grow so tall and rank. Used almost exclusively for late midsummer planting by market gardeners and is very productive. Grows 3 to 4 feet and is best if supported, though support is not usually given. Peas are smooth and very large. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, 3 lbs. \$1.00, 10 lbs. \$3.00, 25 lbs. and over 30c per lb.

***ABUNDANCE.**—A second early with large pods containing 6 to 8 large peas. Height 3 ft. Quality first class. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 50c, postpaid. Not prepaid, 3 lbs. \$1.20, 10 lbs. \$3.75, 25 lbs. or over at 35c per lb.

***YORKSHIRE HERO.**—A dwarf sort, 2 $\frac{1}{2}$ ft. high, producing very large pods and peas. Splendid yielder; best quality. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 50c, postpaid. Not prepaid, 3 lbs. \$1.20, 10 lbs. \$3.75, 25 lbs. or over at 37c per lb.



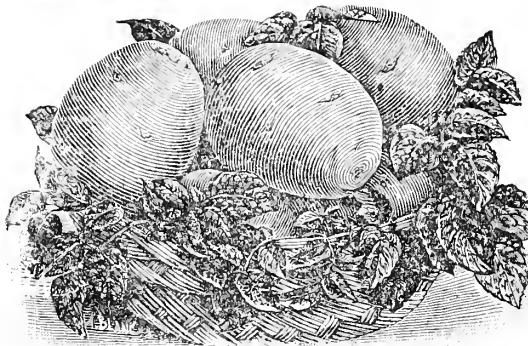
CHAMPION OF ENGLAND



EVERBEARING



DWARF WHITE MARROW



ROSE OF THE NORTH

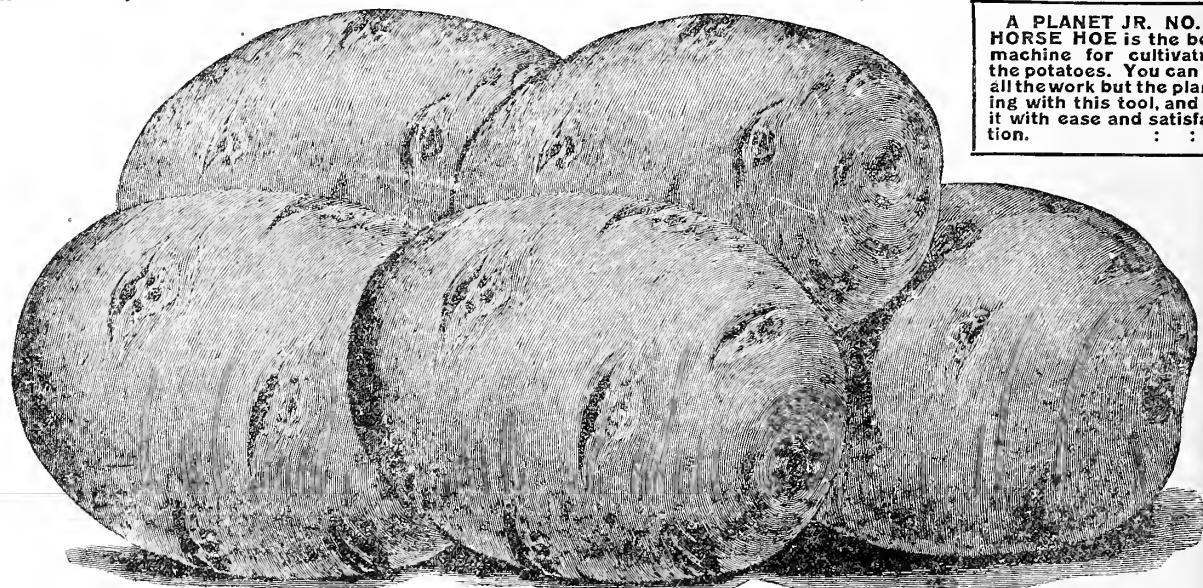
An improvement on the old Early Rose which has been grown on the virgin soil of the far north. It is very early, being only a trifle later than the Early Ohio and much larger. Is smooth and of handsome rose color. Quality superb, either baked or boiled, and yields immensely. Keeps sound well into spring. This new strain is rapidly gaining the place long held by the old Early Rose. Pk. 75c, bu. \$2.50.

SEED POTATOES

The Proof of the Potato is in the Eating

Prices on Potatoes frequently change as the market advances or declines. See Red Ink Price List accompanying this Catalogue.

It is of greatest advantage to potato growers to purchase their seed of us. By using our northern grown stock you are assured of early maturity, increased yield and vigorous growth. There is no longer any doubt that seed potatoes from the Red River Valley surpass those from any other section of the country with the possible exception of the state of Maine. We have for a number of years had our supplies grown in the northern part of Minnesota and Dakota and the comparative tests have each season shown a advantage for the northern seed. This is especially true of the early varieties. They mature earlier, are free from disease and produce more abundantly than home grown stocks. Prices of potatoes fluctuate greatly, but good seed potatoes are always worth more than ordinary table stock. This part of the catalogue is printed in November. We cannot fix price so far in advance of the selling season, hence we only quote in smaller quantities. If you want a large lot consult the red ink price list of farm seed which is dated the day it is mailed with this catalogue. Should you not send your order until a change in price has occurred we will notify you upon receipt of your order and hold it until we can hear from you. If the order comes too late in the season for correspondence we will send the full value of the money received.



FANCY NORTHERN GROWN EXTRA EARLY OHIO (*Grown in Red River Valley*)

EXTRA EARLY OHIO

Fancy Northern Grown Stock

For several years past we have been having these grown in the noted Red River Valley, about 400 miles north of Des Moines, and careful tests have proved them to be fully ten days earlier than the Iowa grown stock. This is a great advantage to the gardener, and puts this variety at the head—the most popular of all. They are all of good, average size, strictly pure, smooth and free from scab or rot, and outyield the other early sorts. It is an especial favorite with marketmen, and the most profitable potato they can grow. The sprout is very strong and the vines grow erect, making it easy to cultivate, and on account of its early maturity you can get the highest market prices. They will keep firm till late in the spring. This variety is frequently sold under the name Extra Early Six Weeks. This is our specialty in standard varieties. Also desirable for late planting as they keep well for winter and spring use. Pk. 85c, bu. \$2.75.

BLISS EARLY TRIUMPH

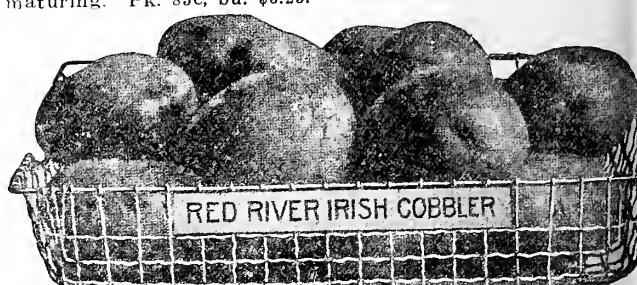
Selected Northern Stock

A popular first early variety. This is the round red potato which is generally in our markets as new potatoes very early in spring. They are grown quite largely in the South and are a favorite for early market. Most of our customers are no doubt familiar with the Early Triumph. The color is bright red; shape is almost spherical, and in size they are about equal to the Early Ohio. They ripen very quickly and are ready for the table as soon as large enough. Our stock is Minnesota grown like all of our seed potatoes and is strictly pure and carefully selected. Pk. 85c, bu. \$2.25.

IRISH COBBLER

EXTRA EARLY NORTHERN GROWN STOCK.

The Irish Cobbler has the form and color so popular in the market. Is prolific and profitable to the grower and from these causes has become a much prized variety. Matures as early as the Early Ohio, and is preferred by many because it is smooth and round in shape and of cream white color. The flesh is white and of fine quality and flavor. It is a strong, vigorous grower, with strong germ. Eyes well developed and slightly indented. Generally quoted at a premium in the summer markets because it is of economical shape, there being no waste in preparing for cooking. It is rapidly taking front rank as a market variety, and its popularity is founded on real merit. As with the Early Ohio, we recommend our northern grown stock as being more prolific and earlier maturing. Pk. 85c, bu. \$3.25.



POTATOES--Continued

RURAL NEW YORKER

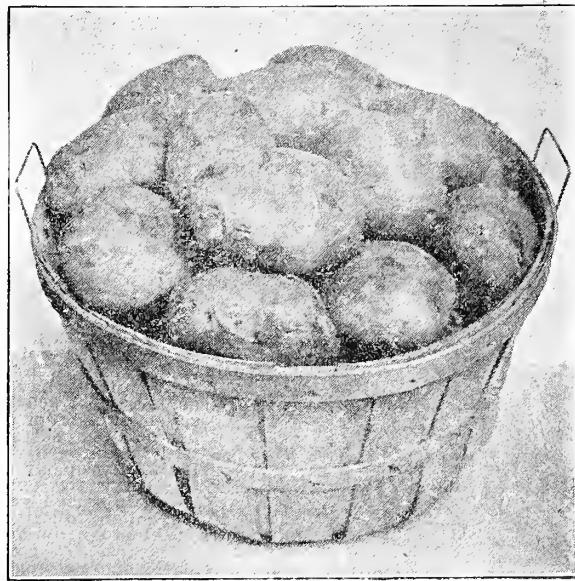
The Most Popular Main Crop Variety.

One of the largest yielding varieties in existence. Preferred by large buyers because it is large and unusually smooth, with few and shallow eyes, skin white as is also flesh, which is of good quality. Medium late and the best drought resister. There is no other potato of more handsome appearance than the Rural New Yorker. It is very hardy and will stand the heaviest manuring without getting scabby or spotted. For this reason it is one of the most desirable varieties for farmers and potato growers near large cities to grow for main crop for market. Under ordinary circumstances they will yield from 300 to 400 bushels per acre and by heavy manuring this yield can be almost doubled. Pk. 75c, bu. \$2.60. See red ink price list for quantity prices.

NORTHERN KING

A Main Crop Potato of Exceptional Quality.

Offered as the potato par excellence in quality. Has light red or pink color and oblong shape and is vigorous and prolific. It will outyield either Rural New Yorker or Burbank and because of extra vigor and vitality will make a crop under most trying conditions. It is quality that recommends this variety, the writer preferring them to all other kinds for winter use. The tubers average larger in size than most sorts, are smooth and of good shape, and they cook whole, either baked or boiled, without hard centers or becoming "soggy." For the family who wish to grow their own potatoes for the winter supply we believe the Northern King will prove the best variety to plant. Pk. 75c, bu. \$2.50. See red ink price list for quantity prices.



RURAL NEW YORKER



BURBANK POTATO

SEED SWEET POTATOES

PRICES SUBJECT TO CHANGE OF MARKET.

Thrive on any of the loam soils of the Middle West, and do especially well on sandy ground. They are so easily grown that there should be plenty at every home where a small plot of ground is available. A few hundred plants will supply all you need. One customer reports 20 tubers, weighing over twenty pounds, from a single hill, and a full bushel from three hills last year. We do not recommend that you buy sweet potatoes for a small family garden. Better buy plants unless you need a thousand or more. They are not expensive, ship without loss, and grow readily when transplanted. Plants are priced both postpaid and by express, in large or small quantities, on page 33. It is not, however, difficult to grow plants and if you desire information ask for our circular, "How to Grow Sweet Potatoes," and we will mail it free. Keep them free from weeds and the ground mellow. After vines begin to run they will keep down the weeds.

Our seed sweet potatoes are grown, stored and handled especially for seed purposes. They are not cold storage stock on which the germ has been killed but are fresh and vigorous. It is absolutely necessary that they be handled quickly in spring as they do not keep well after being taken from the storage bins. We cannot guarantee them to be all sound upon arrival and we try to protect our customers by prompt service. For this reason we hold the potatoes and fill orders at once so as to get them to you promptly. We usually ship from April 12th to 20th and notify our customers when we start them. Prices are subject to change of market, and we will be pleased to quote firm prices in March.

EARLY YELLOW JERSEY.—An improvement on the Yellow Nansemond. In

spite of the many so-called new varieties, all of which we have tested, Early Jersey holds first place. The earliest and most productive, of large, short, chunky shape and of the very best quality. It will probably always remain the most popular market sort. 10 lbs. 75c, 50 lbs. \$3.00, bbl. \$6.00. Ask for prices in quantities.

RED JERSEY.—Similar in shape to Yellow Jersey, but dark red color. Do not rot so quickly as other kinds and are preferred by many. Quality excellent. Write for price.

WHITE SOUTHERN QUEEN.—These are the large "yams" which are so popular in the South. Even the seed potatoes are of monster size and often weigh several pounds each. Write for price.

Any of the varieties of sweet potatoes by mail, postpaid, at 35c per lb, 3 lbs. for \$1.00.

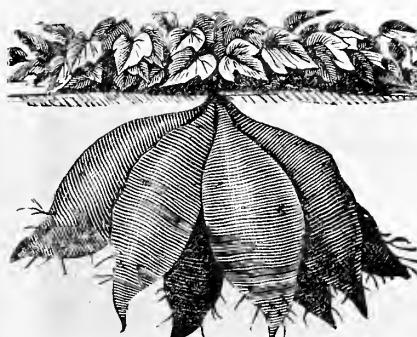


NORTHERN KING POTATO

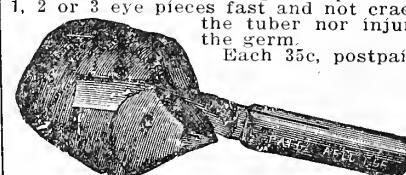
I received the sweet potato plants in very good condition. I did not believe you could send plants to Texas so fresh and nice.—Chas. Schubert, Lexington, Texas.

CONCAVED AND CURVED SEED POTATO KNIFE

It is thin and of the right shape to cut 1, 2 or 3 eye pieces fast and not crack the tuber nor injure the germ.
Each 35c, postpaid.



EARLY YELLOW NEW JERSEY



CONCAVED AND CURVED POTATO KNIFE



ATLAS PUMPKIN.

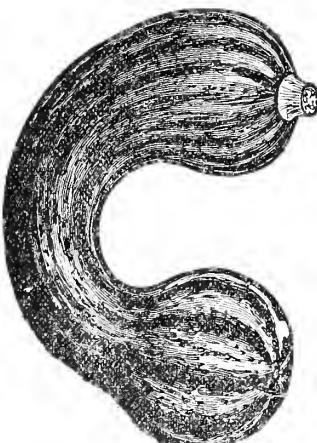
PIE PUMPKINS

YANKEE PIE.—The noted New England Pie or Small Sugar Pumpkin. Same shape and color as the Connecticut Field but is smaller, very sweet, fine grained and one of the best varieties for table use. It pleases everyone for making pies. Early. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

LARGE CHEESE.—This is a very popular pumpkin for pies and is quite commonly known as "Sweet Pumpkin." In size they average about as large as the Connecticut Field but are flat shaped, with creamy buff skin and thick golden flesh. It is one of the best of the pie pumpkins and can be grown in the corn like the common cow pumpkin. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25. Five pounds by express or freight at \$1.00 per lb.

JAPANESE PIE.—This is similar in size and form to the well known Cushaw, but the skin is deep green, with darker stripes; earlier than any other pumpkin. Seeds marked with curious indentations. Flesh is very thick. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.75.

GOLDEN RUSSET.—An extra choice sweet variety, also called Winter Luxury. Golden yellow netted or russeted over surface; small to medium size. Unsurpassed as a pie pumpkin and a good seller on market. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.25.



JAPANESE PIE.

PUMPKIN

(One ounce will plant 25 hills; 4 lbs. will plant one acre.)

The best, most enterprising and most prosperous farmers put in a crop of pumpkins every year. They can be grown separately or with a corn or potato crop, and do not seem to interfere in the least. They are valuable for feeding to stock, and what is a fair without pumpkins, or a Thanksgiving dinner without a pumpkin pie? Planted with corn, two pounds will plant one acre.

MAMMOTH PUMPKINS

NEW ATLAS.—The largest of them all. We have grown this variety on our home seed farm for many years. They are uniform in shape and we have had them weigh as heavy as 300 lbs. Our seed is saved only from the largest sized, perfect shaped specimens, which will be sure to produce enormous fruits if properly grown. It is just the thing for exhibition at fairs. Flesh is a rich yellow, very thick, and excellent quality, nutritious and profitable to grow for stock feeding. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.

"From one seed of the Atlas Pumpkin received from you I grew one vine which produced four pumpkins. The largest weighed 175 pounds, the second 168 lbs, third 138 lbs, fourth 96 lbs., or 577 lbs. in all."—Hardy Hughes, Myrtle Creek, Ore.

KING OF MAMMOTHS.—The largest variety of true pumpkins. The flesh and skin are of a bright golden yellow, fine grained and of good quality. We know of one specimen that reached the enormous weight of 245 lbs. One customer writes us that he grew one that weighed 158 lbs., and on the same vine he had five other pumpkins from 80 to 104 lbs. each in weight—over 640 lbs. grown from one seed. Farmers and gardeners, just think of that kind of a crop! Will it not pay to grow the King of Mammots and exhibit them at your county fair? Our seed is from select specimens Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

KING OF MAMMOTH PUMPKIN

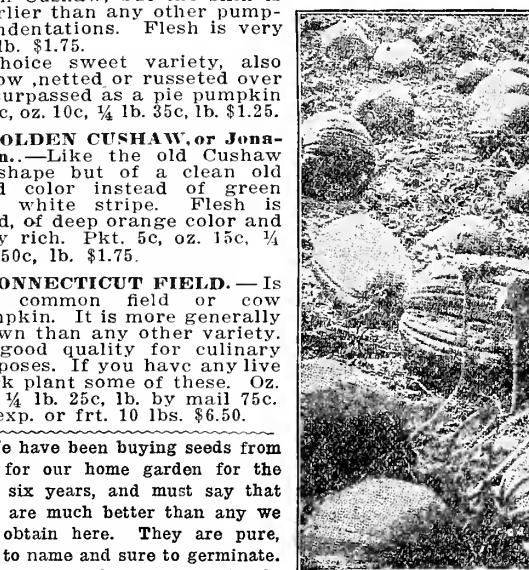
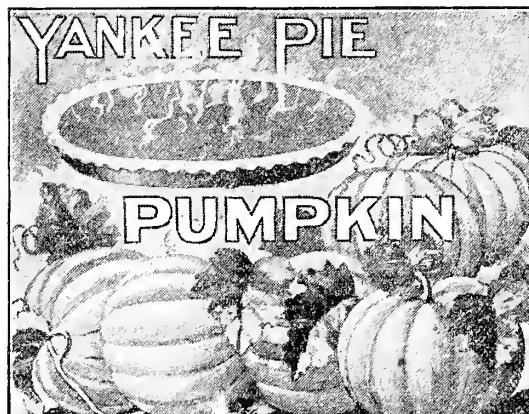
MAMMOTH TOURS.—Is also called "Mammoth Whale." Grows to an immense size, sometimes 3 feet in length, and to a weight of 100 to 200 pounds. Flesh of a salmon color. Seed of a peculiar shape. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.

**COLLECTION OF
Mammoth Pumpkins**

One Packet Each of New Atlas, Mammoth Tours and King of Mammots, postpaid for

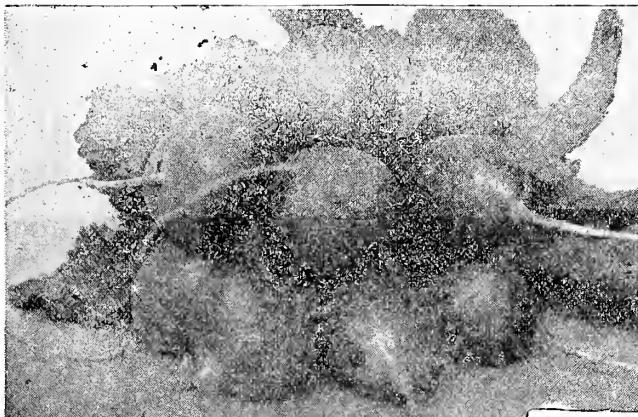
ONLY TWENTY CENTS

I have used your seeds for the past three years and find them to be the best seeds and largest packages I ever bought.—Mrs. J. E. Broadford, Burr Oak, Kansas.



CONNECTICUT FIELD PUMPKIN

We have been buying seeds from you for our home garden for the past six years, and must say that they are much better than any we can obtain here. They are pure, true to name and sure to germinate.—W. R. Chandler, Boyd's Creek, Tennessee.

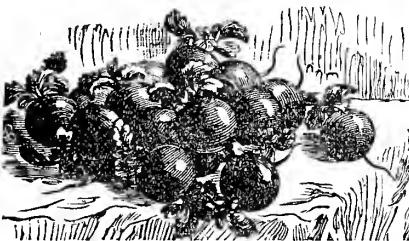


SCARLET GLOBE

Radish seed should be sown in light, rich soil as early as the ground can be worked, and for a succession, at intervals of two weeks, until midsummer. Radishes must be grown quickly and have plenty of room or they will invariably be tough and pithy. Sow in drills one foot apart and thin to two or three inches apart as soon as the rough leaves appear.

EARLY SCARLET GLOBE.—The most popular variety for hotbeds and forcing, as it is the earliest of all. Of handsome color, crisp, juicy and tender. It forms a small top and will stand a great deal of heat without becoming pithy. Is the gardener's standby for first early radish. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

EARLY SCARLET GEM.—Extremely early variety which has matured fit for the table in twenty days. Is fully grown in less than four weeks. It is of a perfect globe shape, and of bright, rich, scarlet color, tipped pure white. It has very few leaves, therefore is an excellent variety for forcing. In quality unsurpassed; tender, crisp, appetizing. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.



GOLDEN DRESDEN

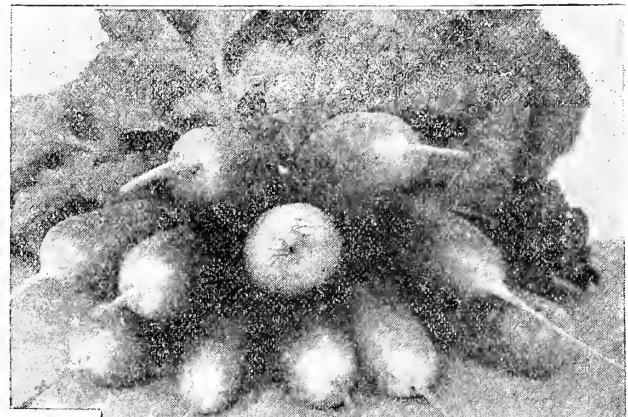
GOLDEN DRESDEN.—A little beauty, with golden brown skin, white flesh, crisp, juicy and of finest flavor. One of the quickest growing sorts; tops small. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

MODEL WHITE BOX.—Of handsome shape, very early and has but few leaves, and one-third more radishes can be grown in the same space than with most varieties. Of clear white color, solid, juicy and unsurpassed in flavor. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.



MODEL WHITE BOX RADISH

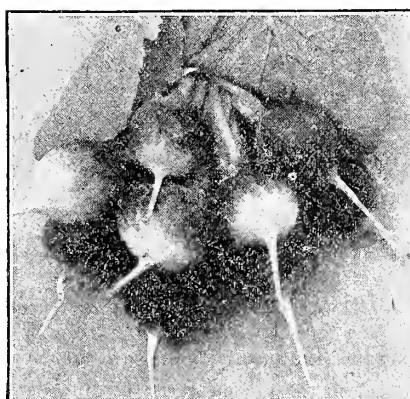
RADISH



FRENCH BREAKFAST

FRENCH BREAKFAST.—Of medium size and olive shape, with small top; of quick growth; beautiful scarlet color, shading to white. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

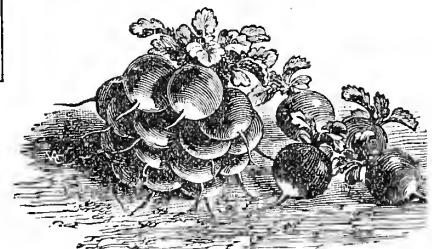
SPARKLER.—This is a new extra early, white-tipped, round radish. It is distinct in that the white tip is larger and more pronounced than in any other sort. Much more of the root is white than shown in our illustration, and the contrasting colors being so nearly equal gives it a more attractive appearance. Well adapted for either forcing in frames or private garden. Quality unsurpassed; remain solid and crisp a long time. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.



SPARKLER

EARLY BIRD.—Decidedly the earliest of radishes. With loose soil and proper culture the Early Bird is ready for the table in twenty days from the time of sowing the seed, which makes it one of the most desirable sorts ever offered for either forcing or outdoor culture. It is of round or turnip shape, as shown in our illustration, of bright scarlet color and pure white flesh, which is tender, crisp and of the very best flavor. It has few and short leaves. Very desirable for the home garden and a money maker for the market gardener. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

STRIPED TRIUMPH.—Shape round, with white skin striped bright scarlet. Very early and has small top. Flesh is white, crisp and tender. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.



VIOLET QUEEN RADISH.

VIOLET QUEEN.—A small, round or turnip-shaped variety of a beautiful or violet-purple color, shading to white near the tip, thus giving it a very pleasing aspect. It matures very quickly, is solid, crisp and of excellent flavor, and does not become pithy quickly. For best results grow in loose, rich soil and cultivate well. It is very showy on the table. Pkt. 10c, oz. 30c.



GIANT FORCING

CRIMSON GIANT FORCING.—The most profitable variety for market gardeners, and may well be considered the most valuable new sort sent out for many years. A rapid growing variety, developing roots of beautiful deep crimson, perfect in shape and more than double the size of any other forcing variety. It often measures 9 inches in circumference without getting pithy or hollow, and retains its firmness and tenderness of flesh. It comes into market a few days after the smaller earlier kinds but drives them all out when it appears. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

RADISH--CONTINUED

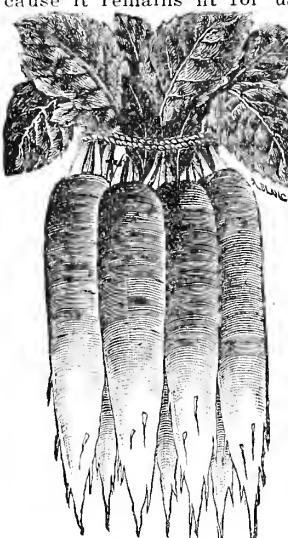
ICICLE.—A splendid long variety of almost transparent whiteness. Produces nice roots in twenty-two days from the date of sowing, and it continues in prime condition for a long period, so that in one sowing of seed, nice, crisp radishes may be had from spring until midsummer. It is much the most popular sort in the entire list. There is no variety that grows more uniform in type, and there are none that surpass it in quality. We recommend it as the very best early radish. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

WHITE STRASBURG.—Of handsome, oblong, tapering shape, both skin and flesh being pure white. The flesh is firm, brittle and tender and retains its crispness even if old and large. Excellent for summer use. Very popular because it remains fit for use a long time and does not get pithy. Sometimes called the Sandwich Radish. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

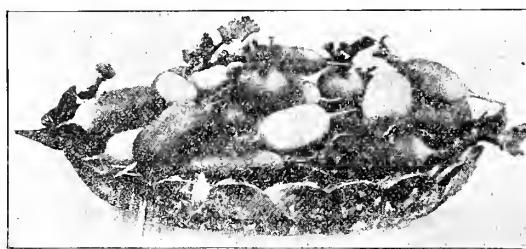
IMPROVED CHARTIER.—The roots are long and cylindrical, scarlet rose above, shading into pure waxy white at the tip. Flesh white, crisp and of mild flavor. Stands hot weather well. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 55c, lb. \$2.00.

EARLY LONG SCARLET, or Short Top.—An old standard variety of quick growth; long, slender root. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 55c, lb. \$2.00.

BRIGHTEST LONG SCARLET.—The handsomest long red radish which is very early. It is shaped like Long Scarlet, but the tips are white like the Chartier. The white and red colors in contrast make it a popular market sort. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.



BRIGHTEST LONG SCARLET



MIXED RADISHES

MIXED RADISH.—Our mixture of about two dozen kinds contains all shades and shapes; red, white, pink, variegated; round, half-long and long, in great variety. It is all the go for small gardeners, where space is limited and you want to make garden and be done with it. One sowing does for the whole season, as they come early, medium, and late. You always have some that are just right. You will be surprised and delighted with our popular radish mixture. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

WINTER RADISH

SAKURIJIMA.—This is a giant variety of radish from Japan. It has been grown to the enormous dimensions of 43 inches in circumference. The flesh is solid, firm and brittle, and of excellent flavor. It will grow and thrive in any ordinary garden soil. This is a real "novelty" to most Americans and it will hardly be recognized as a radish from its appearance when full grown. Try it and you will be surprised at the real value of this monstrous variety. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.00.

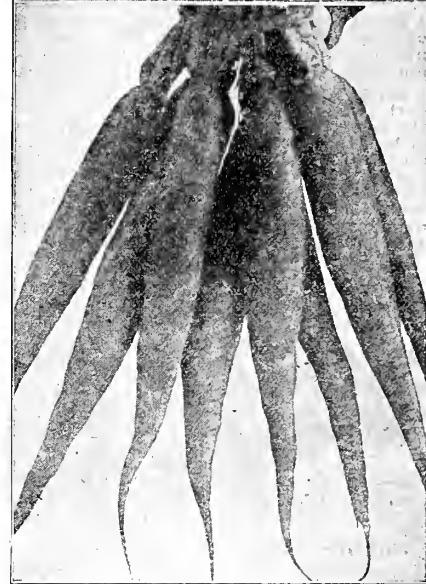
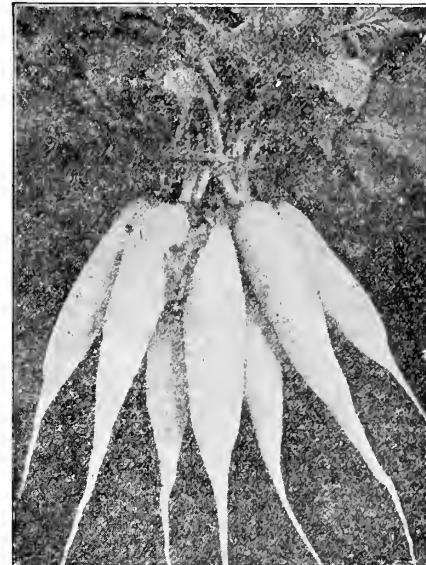


WHITE STRASBURG

CALIFORNIA MAMMOTH WHITE.—Large size, eight to twelve inches long, two to three inches thick, white, solid, of good quality. A very popular sort with market gardeners for late selling. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

CHINA ROSE WINTER.—A bright rose colored variety. The most popular of the winter radishes because of its bright color, firm flesh and long keeping qualities. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

LONG BLACK SPANISH.—A large, black-skinned radish, with firm white flesh of pungent flavor. A good keeper, lasting until spring. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.



WHITE ICICLE AND LONG SCARLET

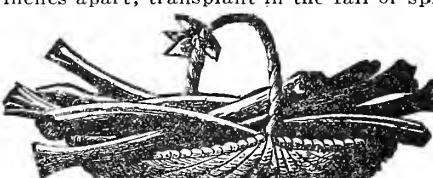


BLACK SPANISH
and CHINA ROSE
WINTER RADISH

RHUBARB OR PIE PLANT

(One ounce will produce about 100 plants.)

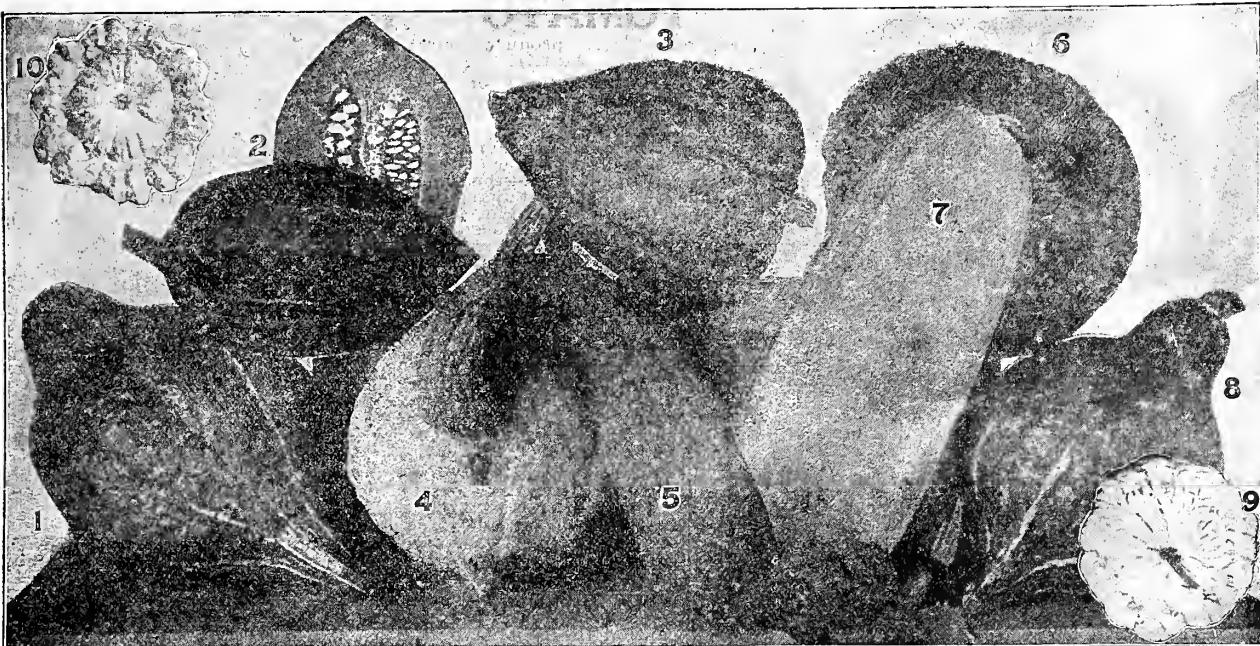
Succeeds best in deep, rich soil. Sow in the spring in drills, cover one inch. Thin to six inches apart; transplant in the fall or spring to permanent beds three feet apart each way.



IDEAL MAMMOTH.—The largest pie plant grown. Leaves four feet across; stalks three inches in diameter and three and one-half feet long, and this is not unusual. Have had them that large on two-year-old plants. They have a habit of dying down in midsummer and starting growth in August and September, which makes it just right for canning for winter use. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c. Roots 35c each, doz. \$2.50, prepaid; not prepaid, \$1.50 per dozen.

VICTORIA.—For many years the standard variety of rhubarb. Stalks are not so large as Ideal Mammoth, but are preferred by many on account of their more piquant and richer flavor. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

For price of rhubarb roots, see page 38.



One ounce of early varieties will plant about forty hills, 2 lbs. per acre.

SQUASH

One ounce late varieties will plant about twenty hills, 4 lbs. per acre.

Plant about the middle of spring in hills, the early sorts four to six feet apart, the late varieties eight to twelve. Thin to three plants in the hill. The soil cannot be too rich. Use Slug Shot to kill the bugs.

TABLE QUEEN SQUASH.—(See Cut No. 2.)—Vines are vigorous and very productive. Just the right size, averaging about 6 to 8 inches long and 4 to 6 inches in diameter. Color dark green, with sometimes a blotch of red at pointed end. The shell is hard and smooth, and is ridged as shown in the picture. Just wash it clean, cut in half, take out the seeds, bake twenty minutes and you will have the most delicious squash you ever tasted. Splendid for pies because of its sweetness and dainty flavor. Ripens in the fall and keeps as long as Hubbard. A novelty which we introduce in full confidence. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

GOLDEN BUSH.—(Yellow Bush Scallop).—(Cut No. 10.)—The earliest of all and quite a favorite with all who like summer squash. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

WHITE BUSH SCALLOPED.—(Cut No. 9.)—Similar to Golden Bush. Color creamy white. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

EARLY BUSH CROOKNECK.—(See Cut No. 5.)—Splendid, early, productive, fine quality. With all new varieties recently brought out, many claim there is no summer squash superior to this. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

MAMMOTH CHILI.—(See Cut No. 6.)—The "Jumbo" of the family. Outer color rich orange yellow; skin smooth, wide fissures. Flesh very thick and of a yellow color. They keep well and are profitable for stock. Have been grown to weigh over 200 lbs. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.75.

PEERLESS VEGETABLE MARROW.—(See Cut No. 7.)—In England they consider this far superior to any variety of squash. The Peerless is the most desirable sort, fruits being handsome shape, creamy white color, of excellent flavor. Very productive. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

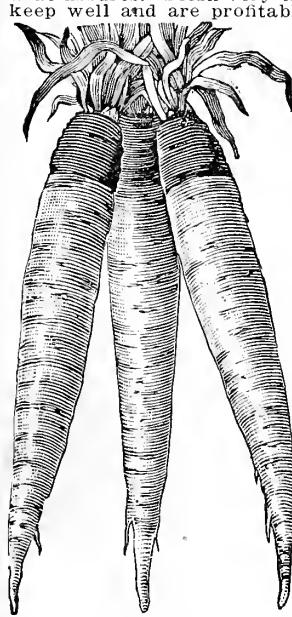
SALSIFY

VEGETABLE OYSTER

(One ounce will sow 50 feet of drill, 8 lbs. to the acre.)

It is one of the most delicious and nutritious of vegetables and should be more generally cultivated for use in the winter, when the supply of really good vegetables is limited. It has the true oyster flavor and is a delicious substitute for them in soup, etc. Cultivate like parsnips.

MAMMOTH SANDWICH ISLAND.—The best and most popular variety. The roots are white, smooth, and, notwithstanding their enormous size, of superior quality. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.50.



IF YOU RAISE MORE SQUASHES THAN YOU CAN SELL ON THE MARKET, THE LIVE STOCK WILL EAT THEM EAGERLY.

EARLY PROLIFIC MARROW.—Early and productive. In color brilliant orange-red; good cooking and keeping qualities. Ripens earlier than the Hubbards and is useful as an early fall variety. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

DELICIOUS.—(See Cut No. 3.)—A most desirable new winter variety. Color is green. Is about the same size as the Hubbard. Has very thick flesh, cooks dry and is of superior flavor. Although a good fall variety, it is best during the winter. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

BANANA.—A distinct variety of fall and winter squash. It is very prolific, grows to two feet or over in length, is very fine grained and heavy, cooks dry but is free from that "choky" quality common to winter squashes. Always rich, sweet and splendid flavor. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

TRUE HUBBARD.—(See Cut No. 1.)—This sort is the most popular winter squash grown; hard, green shell; flesh bright orange yellow, fine grained, very dry, sweet and rich flavor; keep in perfect condition throughout the winter. Our stock is grown on our Altoona farms and is selected for thick flesh and solidity. It has been given special care and is of the highest type. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

SYME'S BLUE HUBBARD.—A new strain of Hubbard and a splendid squash. Very thick meat, fine grained, dry and excellent flavor. Color clear, light blue; thick shelled and a good keeper. It is a great improvement over the old Marblehead variety and will be very popular because of quality and fine appearance. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

GOLDEN HUBBARD, also called Red Hubbard.—(See Cut No. 4.)—A counterpart of the old Green Hubbard, except in color, which is a bright, deep, orange yellow; fine flavor; in productiveness excels the green variety. Every market gardener will find it a "seller." Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.

SPINACH

(One ounce will sow 80 ft. of drill, 10 lbs. to acre.) Makes the finest "greens" of any plant in cultivation. For summer sow early in spring in deep, rich soil, one foot apart in drills; cover one inch; sow at intervals of two weeks all through season. For very early use sow first of September and protect with straw.

VICTORIA.—A variety distinguished for its very long standing qualities, being two or three weeks later than the ordinary varieties. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

LONG STANDING.—Standard with gardeners; leaves are thick, fleshy and crumpled. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

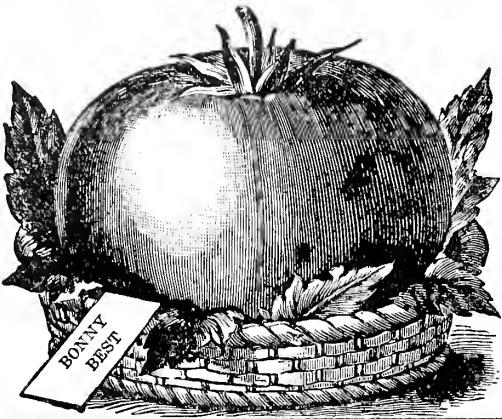
BLOOMDALE.—Savoy - leafed, curled sort. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.



VICTORIA SPINACH

TOMATO

(One ounce will produce about 2,500 plants.)

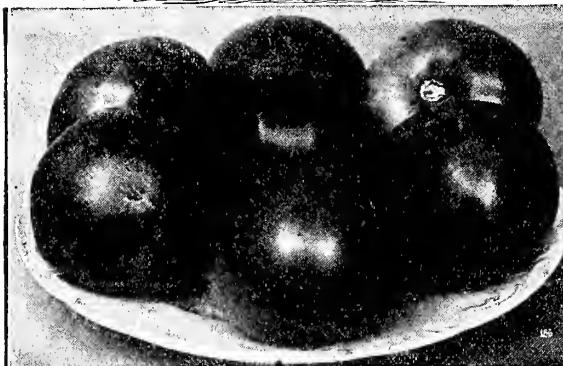


Sow early in hotbeds or seed boxes and when plants have four leaves transplant to four or five inches apart. Give plenty of air and endeavor to secure a vigorous growth. When all danger of frost is past, transplant to the open ground, four to six feet apart each way. Well manured, light, sandy soil is best. Our tomato seed is saved from hand picked fruits. No decayed or deformed tomatoes are used.

SPARKS' EARLIANA. — Probably no early tomato has so large a sale as Sparks' Earliana. Extremely early, remarkable for its large size, handsome shape, and beautiful bright red color. One of the most profitable crops for the market gardener and especially desirable in the home garden. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.

BONNY BEST. — A very early and desirable variety. The fruits are most attractive in shape, solidity and color, which is bright scarlet from outside to center. The vines are strong and vigorous, producing a good crop of round, globe-shaped fruits which ripen more uniformly than other early sorts. A favorite with market gardeners. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.00.

SUPERLATIVE. — The best of all the main crop, medium sized tomatoes. Fruits are medium size, very solid, and without exception the best flavored red tomato we have ever grown. It is very handsome, being a pinkish crimson in color. While we grow many other varieties on our seed farm, our women folks use Superlative in preference to any other. Pkt. 10c, oz. 50c.



SUPERLATIVE

PERFECTION. — Large and round, smooth and handsome red fruit of highest quality. It proves very satisfactory for forcing under glass. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 85c, lb. \$3.00.

DWARF STONE. — A dwarf, upright growing plant with fruits fully as large as the standard Stone variety. The fruits are held up well, while it is far superior to any of the other kinds in size. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.10, lb. \$4.00.

STONE. — One of the best standard sorts. Color bright red. Fruit large size, perfectly smooth and of best table quality. Much used for canning. Productive. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

LIVINGSTON'S BEAUTY. — One of the best. Its size, beauty, shape, color, flavor and productivity make it desirable to market growers. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

MATCHLESS. — Well worthy of its name, for in beauty, color and symmetry of form it is indeed without a peer. Vines of strong, vigorous growth, well set with fruit, very rich cardinal red color, and not liable to crack from wet weather; of large size, and the size of fruit is maintained throughout the season. Solid, of fine quality, keeps well. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.10, lb. \$4.00.

DWARF CHAMPION. — Plant dwarf and compact, stem stiff and short jointed, almost self-supporting when it is laden with fruit. Early. Color is purplish pink. Fruit is smooth, symmetrical, solid and of fine quality. The best to grow for plants for sale, as they are so stocky. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

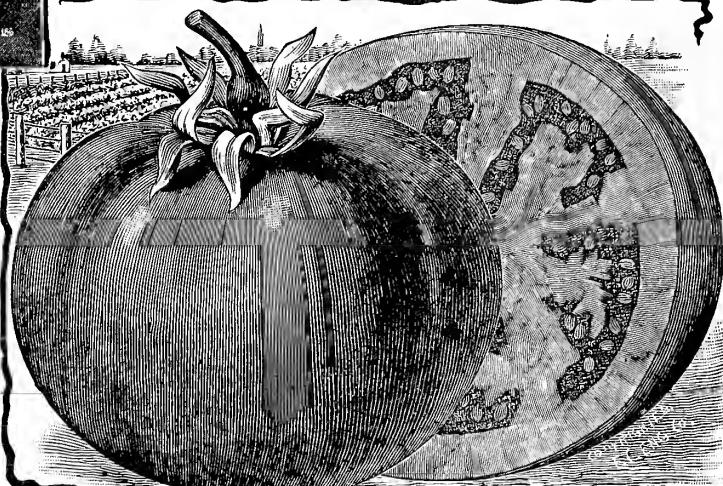
GOLDEN QUEEN. — Large, yellow. Its fruit is smooth and of finest flavor; ripens evenly; handsome. The standard yellow variety. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.10, lb. \$4.00.

PONDEROSA. — Very large, inclined to be irregular in shape, but of fine quality. A variety quite generally known and popular. Fruits are solid, color purplish red. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.50, lb. \$5.50.

CRIMSON CUSHION. — Can be grown on trellises. Grows 7 to 10 feet high, if desired; most of fruit is borne 3 to 4 feet from the ground. Fine quality, extremely large and excellent. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.50, lb. \$5.50.

WONDER MAGNUS. — Is of very good size, deep, rich, red color, very solid and containing few seeds. The best of the potato-leaved tomatoes. A favorite for canning purposes because of its color. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

Do not overlook the Canning Club Collection on page 37.



MATCHLESS



LIVINGSTON'S BEAUTY



THE STONE TOMATO

GRAND TOMATO TRIO

THE THREE MAJESTICS

One Packet Each of the Three Majestics, 25c

MAJESTIC.—This is the largest, handsomest and finest quality tomato ever sent out. When we first secured this grand sort we knew that it was of exceptional merit and superior in size and flavor to anything on the market, but we were astonished at the reports received from our customers. Thousands of letters arrived speaking of it in the highest praise. Undoubtedly the largest fruited of any, and the fruit is solid, weighing more than its size would indicate. The first fruits matured are somewhat rough, but later they are smooth and handsome, of rosy red color, its core blending into delicate shell-rose tints. Fruit is unusually solid, with very small seed cells. Flesh is tender, fine grained and rich, yet of mild, delicate flavor, being of the sub-acid class. Plant is of vigorous growth and many of our customers report specimens of 3 lbs. to 7 lbs. each. The largest were, of course, grown by special culture. There were also many reports of 120 to 160 lbs. of tomatoes grown on one plant. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.50.



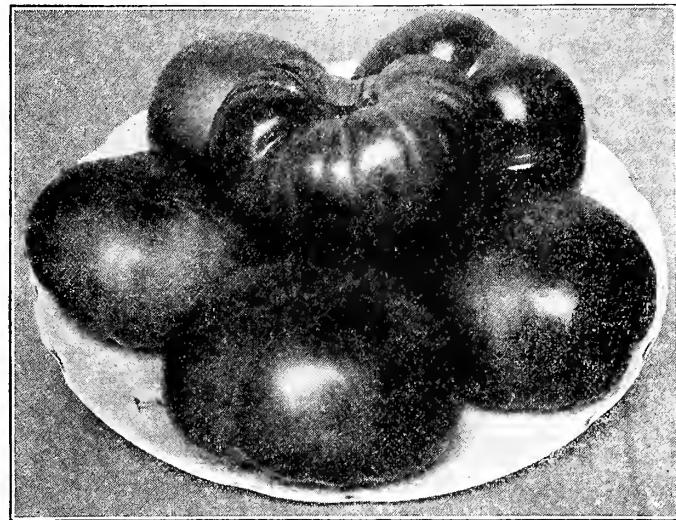
CLUSTER OF MAJESTIC TOMATOES

MAJESTIC TOMATO PLANTS

STRONG, WELL-GROWN, TRANSPLANTED
PLANTS

Majestic	Per dozen, 40c; per 100, \$2.00
Red Majestic	Per dozen, 40c; per 100, 2.00
Golden Majestic	Per dozen, 40c; per 100, 2.00

One dozen of each only \$1.00, postpaid.



RED MAJESTIC

RED MAJESTIC.—This new sort appears to have all the good qualities as well as large size of the world-renowned Majestic, but is a bright cardinal red in color, and for this reason may be preferred by some. Bears its fruit well up from the ground, out of reach of the chickens. Many growing both this and the Purple Majestic pronounce the red variety superior. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.50.

GOLDEN MAJESTIC, the \$1,800.00 Tomato.—A magnificent new variety which originated in northern Iowa, and we were so favorably impressed with it that we bought all the stock in existence and paid for same at the rate of \$1,800.00 per lb. It is the golden member of the great triumvirate, fully equal to its elder brothers in size, solidity, yield and flavor. Without hesitation, we pronounce it the grandest yellow tomato in existence. The tomato is undoubtedly the most popular vegetable in America, and nothing presents a more appetizing appearance than thick, luscious slices of alternating purple, red and yellow, cut from our Majestics. A trial will convince you of their superior qualities. Pkt. 15c, oz. 50c.



PLANT OF MAJESTIC TOMATO

PRESERVING TOMATOES

GOLDEN NUGGET.—When at the Royal Agricultural Show in England, our attention was especially attracted by this grand new variety. Fruits are beautiful golden yellow, round as a ball and about as large as a hulled black walnut. Flavor exceptionally fine, and a most desirable variety for eating from the hand or as a dessert fruit. We have grown them now both on our farm and at our trial grounds, and were more than pleased. Plants were loaded with most beautiful, rich, golden yellow fruits of delicious flavor. Try them. They are extra fine. Pkt. 10c, oz. 75c.

PEACH.—Named from its resemblance to a peach in size and shape. Color a peculiar shade of pink and orange, differing from ordinary tomatoes. A fine sort for preserving. Pkt. 10c, oz. 40c.

YELLOW PEAR.—A favorite with all who know them. Pear-shaped and a deep yellow color. Highly valued for preserving or to make "tomato figs." They are fine pickled. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. 85c.

CRIMSON Currant.—A most charming little fruit, hardly more than a half inch in diameter, of bright crimson color; borne in long clusters containing from twenty to sixty tomatoes. Excellent for eating from the hand or preserved. Pkt. 10c, oz. 60c.

STRAWBERRY, or Husk Tomato.—Also called Ground Cherry. Is of spreading habit and immensely productive. Pkt. 10c, oz. 40c.



GOLDEN NUGGET TOMATO

One ounce will sow 150 feet of drill.

TURNIP

Two pounds will sow an acre.

For early, sow in April in drills half an inch deep and twelve inches apart; thin to six inches apart in the drill. For main crop sow broadcast in July and August, and before a shower if possible.

TURNIP SEED SHORT CROP

There is a serious shortage of turnip seed this year and we urge our customers to order early. If you wait until planting time in midsummer you may not be able to procure what you want. For price in quantity see red ink price list enclosed in this catalogue where we offer such varieties as we have in good supply.

EXTRA EARLY PURPLE TOP MILAN.—One of the earliest sorts in cultivation. Bulb very flat, medium size, quite smooth, with a bright purple top; grows compact and makes exceedingly small strap-leaved top. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 75c.

EARLY WHITE MILAN.—Much like the above, but is pure white all over, instead of having purple top. Quite popular with gardeners. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00.

EARLY SNOWBALL.—A globe-shaped, white-skinned turnip, very fine grained, firm and of delicate flavor. One of the best keeping of white fleshed sorts, very early and particularly adapted for market use. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 75c.

GOLDEN BALL, or Orange Jelly.—A beautiful bright yellow turnip of medium size and universally sweet and delicious flavor. Is hardy and one of the best keepers. Flesh extremely firm and solid. Brings good price on market. If you have never tried yellow turnips we advise you to plant some of the Golden Ball in your home garden this year. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.

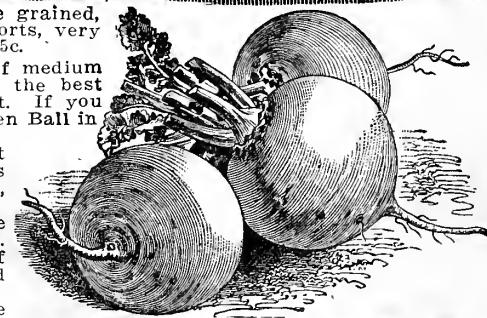
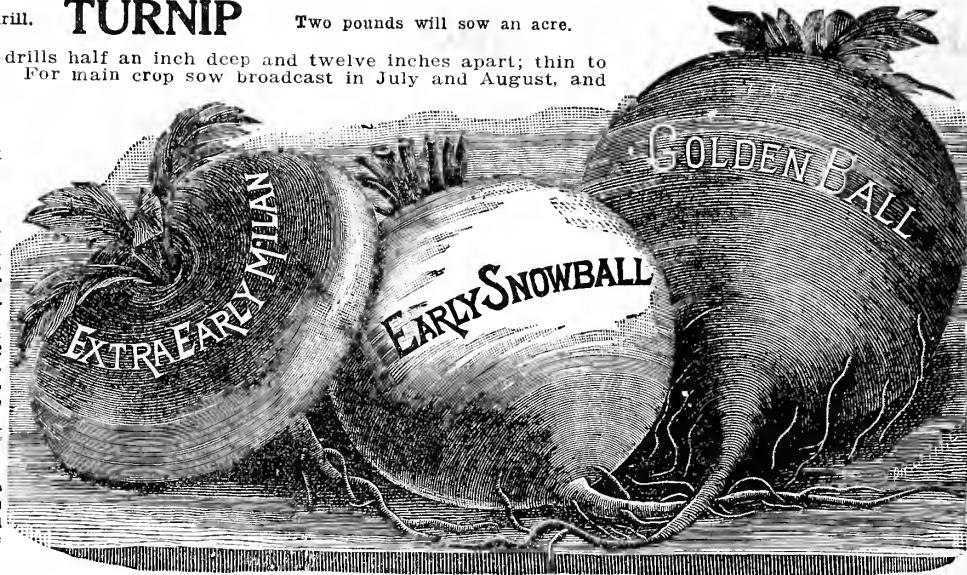
PURPLE TOP GLOBE.—Similar to the Purple Top Strap Leaved except shape. The largest yielder of any turnip on the list and always brings top market price. Desirable for table use or for stock. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 75c.

PURPLE TOP STRAP LEAVED.—The standard for this part of the country for late planting, and we sell immense quantities of it every year. One of the best table and stock sorts on the market, fine grained and of mild flavor. Of good size, flat shape, pure white below with purplish red top. Good cropper and excellent keeper. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 75c.

WHITE EGG.—A quick-growing, egg-shaped, perfectly smooth, pure white variety with small top and rough leaves. The flesh is very sweet and mild, never having any rank, strong taste. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.



PURPLE TOP GLOBE



WHITE EGG.

SCARLET KASHMYR.—This new extra early, bright scarlet turnip has a striking resemblance to a large radish. The flesh is white and crisp. Matures almost as quickly as the earliest radish, and when cooked is of unsurpassed quality. Good keeper and entitled to a place among garden favorites. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 75c.

MIXED TURNIPS.—All the table varieties mixed in equal proportions. For family use. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 75c.

RUTA BAGA

Largely grown in the north for stock feeding, and for this are superior to turnips. Sow in June in drills 2 feet apart and thin out to 8 inches in the row.

IMPROVED AMERICAN.—Very solid, fine quality, good shape, smooth skin, small neck, keeps well. A choice strain of very best quality for table use or stock feeding. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00.

MONARCH.—This grand new and distinct form of ruta baga is, we believe, by far the most productive of all. Of tankard shape with very small neck, skin dark red above ground and yellow below. The flesh is rich yellow in color, fine grained and of good quality. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00.

TOBACCO

BIG ORONOCO.—A favorite Virginia variety. Grows very large, broad leaves. A fine variety for dark plug wrappers and brings a good price in the market. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.00.

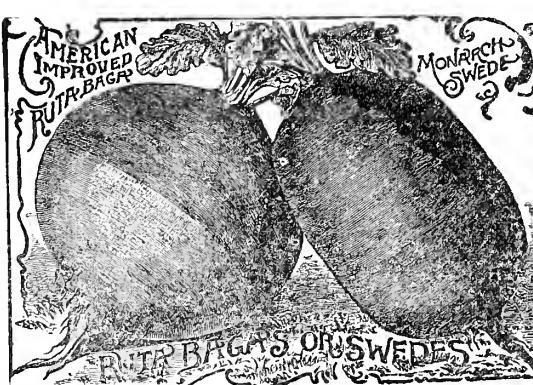
CONNECTICUT SEED LEAF.—This is a staple variety in all sections of the country and will grow successfully over a wide range of territory. Used for cigar fillers. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c.

HAVANA.—The best known variety, as it is used very largely for cigar wrappers. Commands the highest market price when well grown and cured. Pkt. 5c, oz. 40c, $\frac{1}{4}$ lb. \$1.25.

WHITE BURLEY.—A mild and sweet tobacco. It is the standard main crop variety in the tobacco sections as it is extra fine for manufacturing in nearly every manner that tobacco is used. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.00.



TOBACCO



Canning Club Vegetable Collection

SEVEN CHOICE GARDEN FRUITS FOR PICKLING, PRESERVING AND CANNING.

One Packet of each, sufficient for the ordinary garden, postpaid, only 50c.

Ground Cherry IMPROVED YELLOW.—Another year adds to the popularity of any dry soil, are easier raised than the tomato, are prolific bearers and oh! what luscious fruit. For sauce or pies they are excellent. They make delicious preserves and when dried in sugar are much better than raisins for cakes or puddings, and they will keep in the husk, if kept in a cool place, nearly all winter. No one should make a garden again without devoting a space to the Ground Cherry. Directions for preserving with each packet. Per packet 10c; $\frac{1}{2}$ oz. 25c; oz. 40c.

Garden Huckleberry When this new fruit was first offered to us we had little confidence in it, but after growing it on our grounds we recommend it to our customers. It belongs to the Solanum family (*Solanum Nigrum*), which is the same class botanically as the tomato, egg plant, and potato. Fruit is non-edible and by some considered injurious when green. When ripe they are about one-half inch in diameter, of shining black color and make delicious pies, preserves and jam. Easily grown and immensely productive. Directions for cooking on each packet. Pkt. 10c.

Vine Peach Introduced by us. Grow on a vine somewhat similar to the musk melon, and require the same cultivation. Fruit about the size of a large peach, oval shaped, and a bright orange yellow color, somewhat russety. For sweet pickles, pies or preserving they are superb. A jar of these cut in halves and cooked in syrup presents a beautiful and tempting appearance. Recipes for preparing will be sent with each order. Easily cultivated, wonderfully prolific, and can be used in a culinary way as you would a peach. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c.

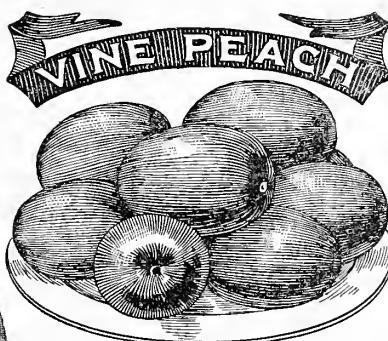
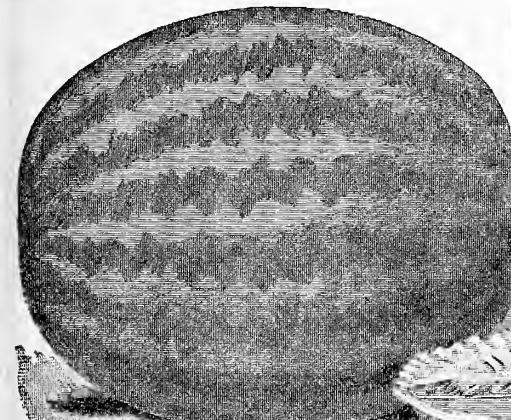
Lemon Cucumber A true cucumber in manner and habit of growth, but fruits are round and about the size of a baseball. Vines are prolific and fruits are splendid for sweet or sour pickles and make fine containers for picili or stuffed pickles. Pkt. 10c; oz. 25c.

Golden Nugget Tomato In our estimation the best of the preserving tomatoes. Round in shape, bright yellow in color, and about the size of a hulled black walnut. Are large enough for table use uncooked, but are preferred for pies or preserves. Wonderfully prolific. Per packet 10c; oz. 75c.

Pimento Pepper A splendid new variety of pepper. Of medium to large size, and mixed pickles of any kind requiring peppers. It is the mildest of all peppers and is splendid to serve as a container for salads, since it is readily eaten and greatly liked in its natural state, either green or ripe. Per packet 10c.

Apple Pie Melon A large citron melon of superior quality. Often weighs 30 to 40 lbs. each. Used in every way that ordinary melon rind is prepared, and superior because of extra thickness and solidity. Specially fine in sweet pickles or preserves and delicious in pies made in the same manner as with ordinary apples, with sugar and spices. Pkt. 10c.

CANNING CLUB VEGETABLE COLLECTION
Seven choice Garden Fruits, sent postpaid, 50c



APPLE
DIE
MELON

variety is early as the earliest, most hardy, very prolific and of best quality. Boys, here is a good chance for you. Think of growing peanuts in your own garden and having plenty of them to eat. Shell nuts carefully so as not to break inside skin, plant as soon as ground becomes warm, from 2 to 3 feet apart each way, 4 or 5 to the hill, covering 2 inches. Soil should be deep and mellow. Produce from 25 to 70 bushels to the acre; easily cultivated as corn. Pkt. 10c, lb. 40c, postpaid. By express 5 lbs. or more at 25c per lb.

SPANISH.—A very early variety; quite prolific, but the pods are small. Per package 10c, lb. 50c.



COLLECTION FOR THE CHILDREN'S CORNER

All children, and grownups too, love melons, peanuts, pop corn and other good things to eat. Devote a small plot in the garden to the production of these items. Let the children have their own plot, do their own harvesting and see how much enjoyment they get from their work. They will take a great deal more interest in gardening for peanuts and pop corn, melons and fruits than they will in the growing of ordinary vegetables. The ground cherry, melons and tomatoes may be eaten as they ripen while the chufas, peanuts and pop corn will be a delight during the winter. Refer to illustrations and descriptions in this catalogue.

1 pkt. Yellow Ground Cherry, sweet and good;
1 pkt. Peach Tomato, fine flavored and small size;
1 pkt. Tip Top Musk Melon, large and fine quality;
1 oz. Sweetheart Water Melon, as good as its name;
1 pkt. Japanese Hullless Pop Corn, the best pop corn variety; 1 oz. Chufas or Earth Almond, small sweet ground nuts of delicious flavor; $\frac{1}{2}$ lb. Red Cross Peanuts, can be grown in any good soil.

Seven items of the best, and in quantity sufficient, amounting at regular value to 70 cents.

MAILED POSTPAID FOR ONLY 50 CENTS.

RED CROSS PEANUTS

HERBS

In making up your assortment of seeds for the year don't neglect to order a few varieties of herbs. The chief point is to harvest them properly, which should be done on a dry day when not quite in full bloom, dried quickly and packed closely and entirely excluded from air. Those marked with an asterisk (*) are perennial.

ANISE.—Seeds of agreeable, aromatic taste. Pkt. 5c; oz. 10c.

BALM.—For making balm tea. Pkt. 5c; oz. 25c.

BASIL, SWEET.—For flavoring soups, stews, etc. Pkt. 5c; oz. 15c.

BORAGE.—Leaves used for flavoring. Pkt. 5c; oz. 15c.

***CARAWAY.**—Seeds are used for flavoring bread, etc. Pkt. 5c; oz. 10c.

***CATNIP, or Catmint.**—For seasoning. Pkt. 5c; oz. 30c.

CORIANDER.—Seeds used in confectionery. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c.

CASTOR OIL PLANT.—Seeds are pressed out to obtain oil. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 50c.

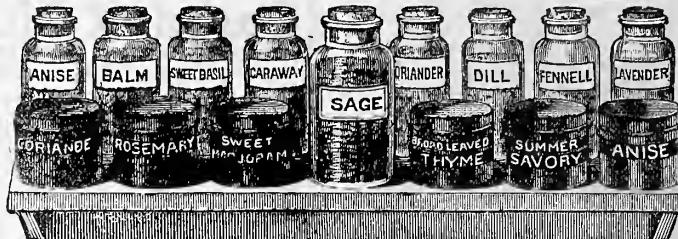
***CHAMOMILE.**—Largely used for medicinal purposes. Pkt. 10c.

***DANDELION.**—Grown for greens, also for medicine. Pkt. 5c; oz. 35c.

DILL.—Used in making dill pickles. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c.

***FENNEL, SWEET.**—Leaves used in sauces. Pkt. 5c; oz. 10c.

***HYSSOP.**—For asthma and catarrh. Pkt. 5c; oz. 20c



***MOREHOUND.**—For seasoning and cough remedy. Pkt. 5c; oz. 20c.

***LAVENDER.**—Used as a perfume. Pkt. 10c; oz. 25c.

MARJORAM, SWEET.—For seasoning. Pkt. 5c; oz. 15c.

POPPY, or Maw.—Blue Seeded. Pkt. 5c; oz. 10c.

***ROSEMARY.**—Aromatic leaves used for seasoning. Pkt. 5c; oz. 40c.

SAFFRON.—Flowers used for coloring. Pkt. 5c; oz. 15c.

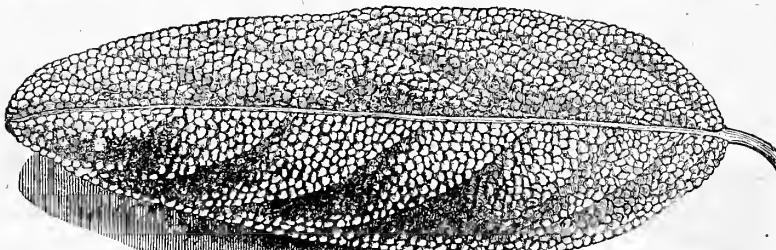
***SAGE.**—Much used for dressing. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 70c; 1b. \$2.50.

SUMMER SAVORY.—Used for flavoring. Pkt. 5c; oz. 20c.

***THYME.**—Leaves and young shoots used for seasoning. Pkt. 5c; oz. 40c.

***WORMWOOD.**—Used medicinally, and also for poultry. Per pkt. 5c; oz. 20c.

MIXED VARIETIES.—A mixture of all the above. A nice garden assortment. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 65c.



HOLT'S MAMMOTH SAGE—AVERAGE SIZE LEAF

ARTEMISIA, or Brotan.—A hardy plant sometimes called "Old Man." The leaves have a pleasant odor and bitter taste. Use similar to wormwood. Each 15c; 3 for 40c.

BALSAM MINT.—Has a soft, agreeable fragrance and is used for perfume; also used for flavoring soups, salads, etc. Each 15c; 3 for 40c.

CALAMUS—Plain Leaf.—(Acorus.)—Also called "Sweet Flag." Leaves have an aromatic odor and roots a pungent taste. Grows in wet soil or beside ponds, but can be grown in dry places also. Each 15c; doz. \$1.50.

CHIVES.—Perfectly hardy little perennials of the onion tribe, and are grown entirely for their tops, which are used wherever flavor of onion is required. Plant in any common garden soil and they will grow readily. The tops appear very early in spring and can be shorn throughout the season. Roots per bunch 10c; 3 for 25c; dozen 85c.

CATNIP, or Catmint.—A well known perennial herb having great medicinal value. Used largely for infants. Ea. 10c; 3 for 25c; doz. 75c.

HOP ROOTS—Golden Cluster.—A fine variety of commercial hops. The vines are very ornamental when trained over rockeries, stumps, etc., with the added value of usefulness from the crop produced. Each 10c; 3 for 25c; dozen \$1.00.

LEMON MINT.—Also called Citronelle. A perennial, hardy herb, leaves of which furnish a sweet lemon fragrance and flavor. Each 10c; 3 for 25c; dozen 75c.



CHIVES

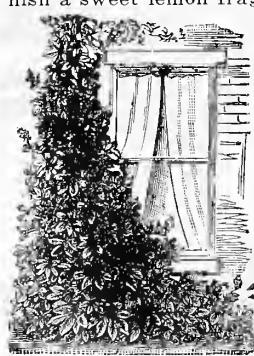
MONARDA DIDYMA.—Also called Scarlet Bergamot and Oswego Tea. Not only useful as an herb, but very ornamental for its bright scarlet flowers. Each 10c; 3 for 25c; doz. 75c.

PEPPERMINT.—All children know and like the flavor of peppermint. It has a high medicinal value. Any pantry collection of dried herbs is incomplete if it does not contain some peppermint. Be sure that your order calls for at least a few plants. Each 10c; 3 for 25c; dozen 75c.

GENUINE PENNYROYAL.—Warm, pungent, of somewhat aromatic taste; used for medicinal purposes. Each 15c; 3 for 40c; doz. \$1.25.

ROSEMARY.—Used for perfume; for flavoring meats, stews, etc., and garnishing. Each 10c; 3 for 25c; doz. 75c.

HOLT'S MAMMOTH SAGE.—Great improvement on common sage. Plants very strong growing; leaves are very large and of unusual substance, strong in flavor and of superior quality. A single plant of Holt's Mammoth will yield more than a dozen of the common sort; hardy. Each 10c; 3 for 25c; dozen 75c.



ENGLISH CLUSTER HOP

GARDEN PLANTS AND ROOTS

Every garden should contain an assortment of these hardy plants and a few square feet will supply the family. Many persons now believe that if these well known old remedies were kept and used more in families in place of so many drugs and patent medicines it would be better for the health of the people. Orders for these plants must amount to at least twenty-five cents. We pay the postage.

LAVENDER.—A favorite plant with our grandmothers for perfuming wearing apparel, by distributing its sprays in the bureau drawers. Each 10c; 3 for 25c.

VARIEGATED MAMMOTH SAGE.—Beautifully variegated dark green and pure white color, which makes it a very ornamental plant; equal to Holt's in productiveness and flavor; new and scarce. Crop failed.

SPERMINT.—This is commonly called Mint and thousands of dollars' worth of it is sold annually in New York, Boston and other cities for flavoring salads, garnishing meats, mint julep, etc. Each 10c; 3 for 25c; doz. 75c.

THYME.—A well known plant which is used for sauces and flavoring. Each 10c; 3 for 25c.

TANSY.—Used largely for its tonic, stomachic and other medicinal qualities. Each 10c; 3 for 25c; doz. 75c.

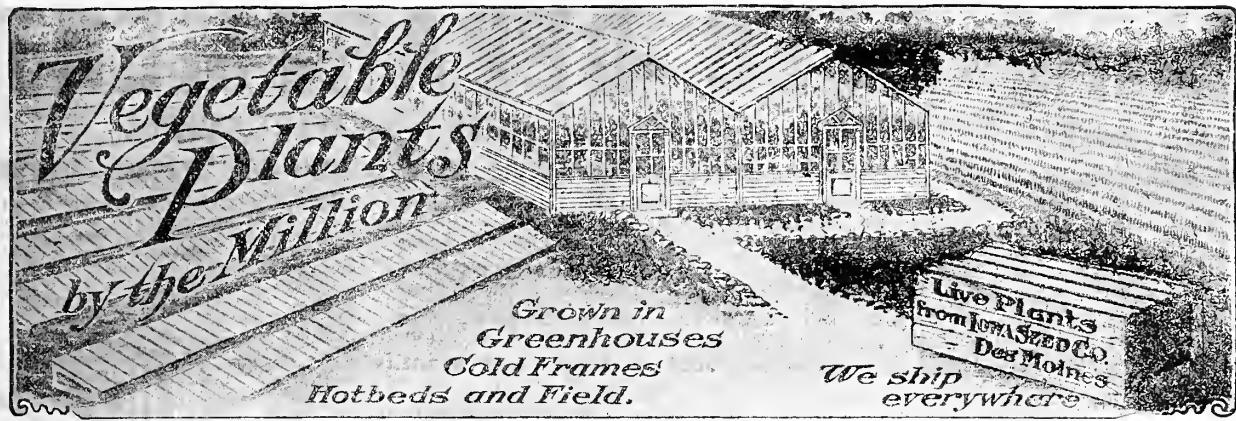
TARRAGON.—The true tarragon is appreciated thoroughly by all who know of it, for the use of its aromatic leaves in seasoning salads, soups, pickles, etc., and also for tarragon vinegar. Each 15c; 3 for 40c; doz. \$1.25.

HOUSEWIFE HERB COLLECTION

3 bunches Chives, 1 Hop Vine, 2 Holt's Mammoth Sage, 2 Lavender, 1 Rosemary and 3 Spearmint; all postpaid for \$1.00.



TARRAGON



Well grown and lightly packed to carry a long distance. They can be shipped fresh, well packed at the beds, on a day's notice. All are strong, transplanted plants unless otherwise stated. Plants quoted "by mail" are sent at our expense; "by express" the purchaser is to pay the express charges. No charge either for packing or boxes. Plants from either hotbed or cold frame are ready during April or May; outdoor grown during June and until the middle of July. 500 sold at 1,000 rate. Large orders for more than 1,000 plants should be placed at least 30 days before shipping date.

EARLY CABBAGE.

Transplanted ready April 10.

Extra Early Express.

Early Jersey Wakefield.

Washington Wakefield.

All-Head Early.

By mail postpaid, 25 for 35c, 100 for \$1.00. By express, not prepaid, 100 for 85c, 1,000 for \$7.50.

If preferred we can furnish seedling plants, not transplanted, by mail postpaid, 25 for 25c, 100 75c. By express, not prepaid, 100 for 60c, 1,000 for \$4.00.

LATE CABBAGE.

Ready May 15; field grown after June 15.

Premium Flat Dutch.

Short Stem Drumhead.

Danish Ball Head.

By mail postpaid, 25 for 25c, 100 for 65c. By express, not prepaid, 100 for 45c, 1,000 for \$4.00.

CELERY.

Transplanted ready May 1.

White Plume, Giant Paseal.

Golden Self Blanching.

By mail postpaid, doz. 20c, 100 for 75c. By express, not prepaid, 100 for 60c, 1,000 for \$5.00.

After June 15 we can furnish outdoor grown plants, not transplanted, by express, not prepaid, 100 for 40c, 1,000 for \$4.00.



CAULIFLOWER.

Transplanted ready April 15.

Henderson's Snowball.

By mail postpaid, doz. 25c, 100 for \$1.50. By express, not prepaid, 100 for \$1.25, 1,000 for \$10.00.

TOMATO.

Transplanted ready May 1.

Sparks' Earliana, Beauty, Stone.

Dwarf Champion, Matchless.

By mail postpaid, doz. 25c, 100 for \$1.40. By express, not prepaid, 100 for \$1.00, 1,000 for \$7.50.

Not transplanted, by express, not prepaid, 100 for 75c, 1,000 for \$5.00.

SPECIAL TOMATO.

Transplanted plants only.

Superlative, Majestic, Red Majestic.

Yellow Majestic, Dwarf Stone.

By mail postpaid, doz. 40c, 100 for \$2.00.

Pot Grown Plants, doz. 75c, postpaid

VEGETABLE PLANT COLLECTION JUST ENOUGH FOR THE HOME GARDEN

READY FOR MAILING MAY 1st.

It often happens that you would prefer to buy a few vegetable plants rather than bother with growing from seed. We appreciate this fact and offer you the following collection as a veritable bargain:

12 Tomatoes, 25 Early Cabbage, 6 Pepper, 6 Egg Plant, 25 Celery, 50 Sweet Potatoes. All by mail, postpaid, for \$1.00.

ASPARAGUS ROOTS

It pays to have a small bed of asparagus so as to gather it fresh, and when once set, a bed will last many years. Our roots are strong and healthy. We recommend the one-year-old roots as more desirable for general planting than the two-year-old, as well as cheaper. Ask for circular giving directions for planting.

CONOVER'S COLOSSAL.—One year plants.—Per doz. 25c, 100 for 90c. postpaid. By express or freight, not prepaid, 100 for 60c, 1,000 for \$5.00.

Two year plants.—Per doz. 50c, 100 for \$1.50, postpaid. By express or freight, not prepaid, 100 for 90c, 1,000 for \$7.00.

PALMETTO.—One year plants.—Per doz. 30c, 100 for \$1.00, postpaid. By express or freight, not prepaid, 100 for 75c, 1,000 for \$6.00.

Two year plants.—Per doz. 55c, 100 for \$1.00, postpaid. By express or freight, not prepaid, 100 for \$1.00, 1,000 for \$7.50.

BONVALLET'S GIANT.—Per doz. 30c, 100 for \$1.10, postpaid. By express or freight, not prepaid, 100 for 75c, 1,000 for \$6.00.

Two year plants.—Per doz. 55c, 100 for \$1.50, postpaid. By express or freight, not prepaid, 100 for \$1.00, 1,000 for \$7.50.

RHUBARB ROOTS

Everyone realizes the value of rhubarb or pie plant in the home garden. The best way to get a start is to purchase a few roots, as you can save one year's time in this way. The roots we offer are not seedlings but large divided plants. Plant in spring or fall, setting plants 3 feet apart each way.

VICTORIA.—The standard for general use. Each 15c, 5 for 70c, dozen \$1.50, postpaid. By express, not prepaid, per doz. \$1.00.

IDEAL MAMMOTH.—The largest and best variety. See description in vegetable seed department. Strong roots 35c each, doz. \$2.50, postpaid. By express, not prepaid, per doz. \$2.00.



GARLIC ROOTS.



HORSE RADISH SETS

HORSERADISH

Grow it in your own garden and grate fresh. Plant the sets small end down in rows 3 feet apart, about 12 inches apart in the row. It does best in rich, loose soil set slanting and covered about two to three inches. Doz. 15c, 100 for \$1.00, postpaid. By express, per 100 75c, 1,000 for \$6.50.

GARLIC

Species of onion propagated by dividing the bulbs into small pieces, planting each one separately. It is quite pungent and is used for flavoring soups, stews, etc. Per lb. 50c, postpaid. By exp., lb. 40c, 10 lbs. \$4.00.

FARM SEED DEPARTMENT

EXPERT PRODUCTION

EXPERT SUPERVISION

EXPERT SERVICE

THE SINCERE EFFORTS AND SPLENDID FACILITIES OF THE ENTIRE ESTABLISHMENT ARE AT YOUR SERVICE

We can help you if you will patronize our Farm Seed Department. We have the equipment necessary to grade up our Farm Seeds to the highest possible excellence. We can give you better stocks than you can get elsewhere. Every item offered in this list has been carefully grown to maintain purity. Every one has had expert treatment in our special machinery and appliances to make it better than when it came to us, and we do improve it. We have so much pride in our stocks that we are ready to be judged in any way you see fit. We will mail free samples of any item for inspection. We will ship you seed with the understanding that it must be satisfactory or it may be returned to us within fifteen days and the money paid for it will be refunded. You can inspect it and test it yourself. You can have it inspected and tested by any authority and we will cheerfully abide by the report. You know we could not afford to make such an offer if we were not sure of our ground.

Let us help you improve your crops, both in quality and quantity

We put time and money and painstaking care into the farm seed line. We have to. We must supply better seeds than you can get elsewhere if we are to have your trade. The present-day farmer raises good grains and if we are to surpass him in quality, we have to keep wide awake and progressive. If our grass seeds are to excel in purity and vitality, it requires the closest scrutiny in buying and cleaning. We ask your trade solely upon our ability to please you.

PRICES named in this department are always subject to important market changes. All quotations are net and are not subject to any premium or discount.

Clover and grass seeds are constantly varying in value, and we issue a red ink price list daily during the busy season. Please write for quotations, sending list of requirements when in need. Orders sent us will be given benefit of lowest prices on day order is received. Will take pleasure in mailing samples and quoting inside prices at any time on large orders.

SIPPING.—In this department everything that is quoted by the packet or pound is sent by mail, postpaid; all larger quantities, unless noted, are sent by express or freight at the expense of the purchaser. Prices named include bags and delivering to depot here.

ABOUT WARRANTING.—We thoroughly test all our seeds and nothing is sent out which we do not believe to be good in every respect. However, we give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned, and the money paid for same will be refunded. We know of no responsible seed firm in the world which guarantees seeds any further than this. Compare with other seed catalogues and you will find we are right.

SOME NEW SPECIAL EQUIPMENT

We have a number of special machines and devices for improving our farm seeds, and think we are better equipped than any other house in the West to do this work at least cost.

OUR CLEANING MILLS

are large Clipper machines equipped with a hundred different screens, so that perfect grading and separation is possible. They are the best made for close work and give splendid results.

A GRADING MACHINE

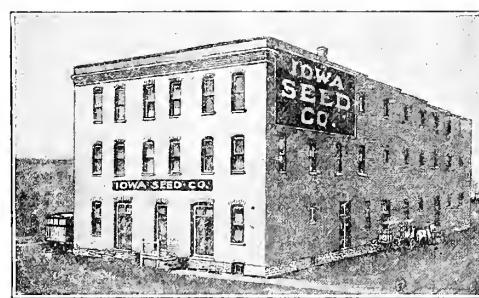
for separating wheat from oats or mixtures of grain of any kind. Operates on the gravity principle and will do the work of separation perfectly. It also separates clover from timothy and takes weeds out of grass seeds that cannot be removed by the screen and wind process of the ordinary fanning mills.

THE HESS GRAIN DRYER

Installed at a cost of hundreds of dollars, to dry any grain or seeds that are immature at harvest, and to protect germ by artificial ripening. Has proven valuable seasons like the year 1915 when corn and other grains were damaged by excessive rainfall.

SCARIFYING MACHINE

We purchased through Prof. H. D. Hughes, of the Iowa Agricultural College, who is the inventor, one of these machines, for the express purpose of scarifying sweet clover seed to increase germination. It will also scarify red clover, alfalfa or other hard hull seeds, and this will be done in any case where necessary to aid the percentage test.



WAREHOUSE, 208-210-212 SOUTH EIGHTH ST., WHERE ORDERS FOR FARM SEEDS ARE FILLED.

SHIPPING WAREHOUSE

Has side-track capacity for seven cars at once, and loading stations for five wagons at the same time. It houses the most modern electric cleaning machinery, with capacity for 1,000 bushels of grass seed per day. It contains a seed drier which will thoroughly cure a car load of grain each day. It also contains the grading and scarifying machines and special devices for hand sorting when necessary. We recently installed the machinery necessary to sort, shell and grade seed corn at the warehouse, so that we might double our output if wanted.

ALTOONA ELEVATOR

Was erected a few years ago with numerous separate bins and storage capacity so that we might have a place to store the excess seed grain until needed for shipment, and quickly execute large orders for car lots. It is equipped with electric cleaning and grading machinery to improve the quality of the grain as it comes in from the threshers, and we can handle a car load through the elevator in less than one hour if necessary.

The above are only a few of the many special processes employed, but we have not room to enumerate further. Stocks supplied will tell the story.

OUR SEED CORN HOUSE

At Altoona, eleven miles east of Des Moines, is, we are sure, the best arranged and most complete building in America for this purpose. The outside walls are made up almost entirely of doors which can be lifted for ventilation and are in fact kept open all the time except during very cold or stormy weather. The interior arrangements consist mainly of very narrow high cribs with ventilators running through the entire length of them and narrow passages between the cribs. There is a very extensive system of steam pipes underneath which are used as needed for drying the corn and also to keep out moisture during foggy weather and to protect it from freezing.



OUR NEW SEED GRAIN ELEVATOR AT ALTOONA



SEED CORN HOUSE AT ALTOONA



It costs less than 7.5 cents
an acre to use our carefully
selected SEED CORN.

Do you deem it wise to risk
doubtful corn when GOOD
SEED is so cheap?

SEED CORN

GROWN, SELECTED, CURED, GRADED AND TESTED BY THE IOWA SEED COMPANY

SUPERIOR QUALITY IS OFFERED AT LOW PRICE FOR THE SEASON OF 1919.

Because of the total destruction of the 1917 crop of corn by early frost, we had but little seed corn from our pedigree stock last year. We were compelled to buy corn of the 1916 crop and make seed as best we could. This condition was general throughout the west, but in spite of all the handicaps the corn crop this year is far ahead of previous seasons. We were able by careful handling to save enough seed of our varieties for our own planting and thus preserve our pedigree strains and varieties. This stock seed has given us some wonderful crops this year. We have never had better seed corn than now.

CHANGE YOUR SEED THIS YEAR.

Many farmers bought any kind of corn they could get last year, with the result that some will need new seed this spring. Now is the best opportunity to make a change because we feel sure we can give you better seed corn than you now have. Last year selecting was but nominal, because every bushel fit for seed was needed. Naturally the crops of this year are not as well bred as they should be. If you are not satisfied with the type you have let us supply you with thoroughbred seed, true to name and type and which is most carefully selected and graded. A year like the present one gives us the opportunity to produce the very highest quality of seed. The corn is thoroughly matured so that little waste results from low vitality. The ears are large, well filled and true to type to a surprising degree, so that we can select it very close and yet get the normal proportion of choice seed. These conditions make it possible to produce a fancy quality of seed corn at the ordinary price.

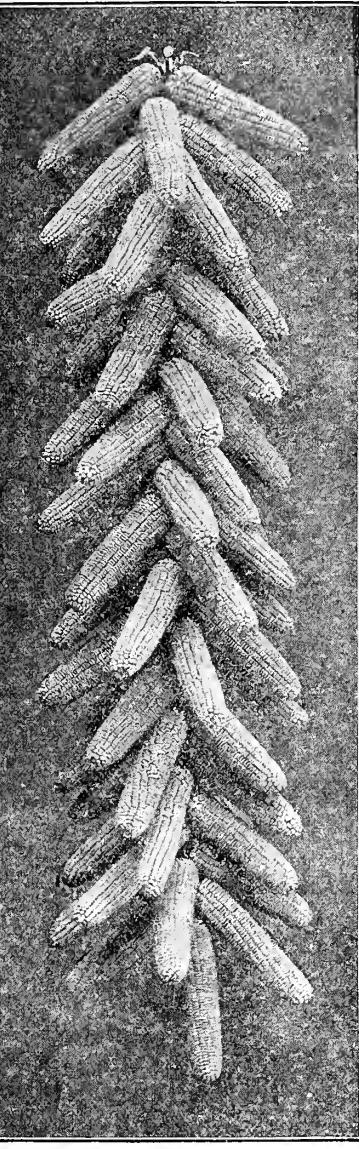
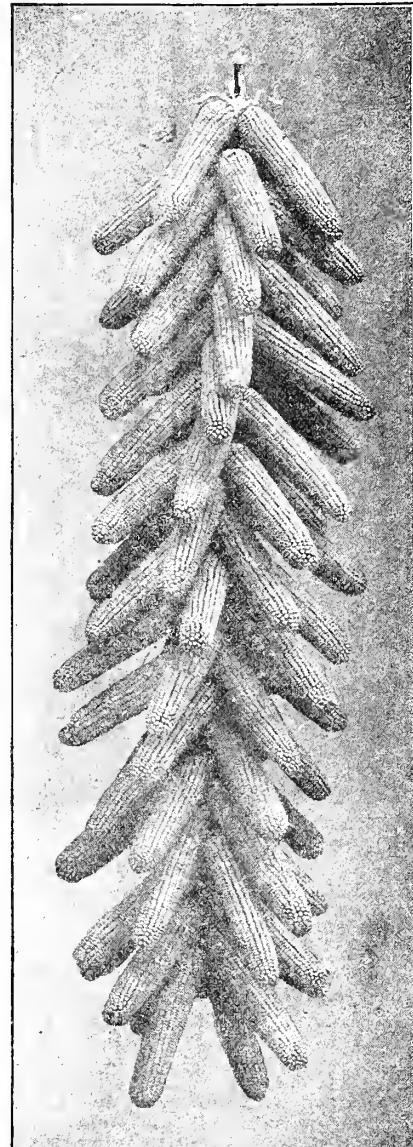
IT IS WORTH THE COST.

What is the value of a bushel of seed corn? Every farmer answers this question according to his ideas of seed corn. There is and can be no fixed price or standard. Ten ears have been sold for two hundred dollars, while more frequently seed has been selected from corn bought on the market at fifty cents per bushel. We have been producing seed corn for thirty years. Experience has taught the operations necessary to produce seed of the highest type and quality, and we have so systematized the labor that we are able to make good seed for less than would be required under ordinary conditions. With us, the work has become standardized, so that the cost of seed corn varies but a small amount from one year with another. Our price to you is based upon the cost to us, and we offer you our seed corn at as low prices as possible under the methods we use. Compared to real value, however, and from the standpoint of results, we do not think you can buy corn of equal quality for so low a price anywhere in this country.

A HUNDRED BUSHELS PER ACRE.

Do you raise a hundred bushels of corn to the acre? If not, why not? It is not an impossibility. There are hundreds of verified records of even greater yields than this. It is not a difficult thing to do. Of course, soil conditions must be right. If your soil is not in its best possible form, the fault lies with you. By a well managed rotation or the use of soiling crops and manures you can always correct the faults of the soil. Given good soil, the next step is good seed. It does not pay to use any but the very choicest thoroughbred seed, no matter what the conditions. The third requirement is intelligent cultivation.

Is our seed corn any better than the kind you are growing? We do not know. We do know this, however: that the seed corn we sell is most carefully inspected and sorted for type and purity before shelling. It is thoroughly graded and tested to insure strong and even vitality. With such corn as this, planted three grains to the hill, you ought to have more than ten thousand stalks to the acre and at least one good ear to each stalk. Such results mean more than a hundred bushels per acre.



VARIETIES TO PLANT

In the Extreme North—Sanford's White Flint, Improved Yellow Flint, Pride of the North, Silver King.

Northern District—Pride of the North, Silver King, Farmers' Reliance, Iowa Gold Mine, Lenocher's Homestead and the Flint varieties.

North Central District—Iowa Gold Mine, Iowa Silver Mine, Silver King, Farmers' Reliance, Lenocher's Homestead and Flint varieties.

Central District—Profit, Iowa Silver Mine, Iowa Gold Mine, Farmers' Reliance, Prosperity, Reid's Yellow Dent, Lenocher's Homestead.

Southern District—All of our large varieties will do well in this section; also any early sorts for special uses.

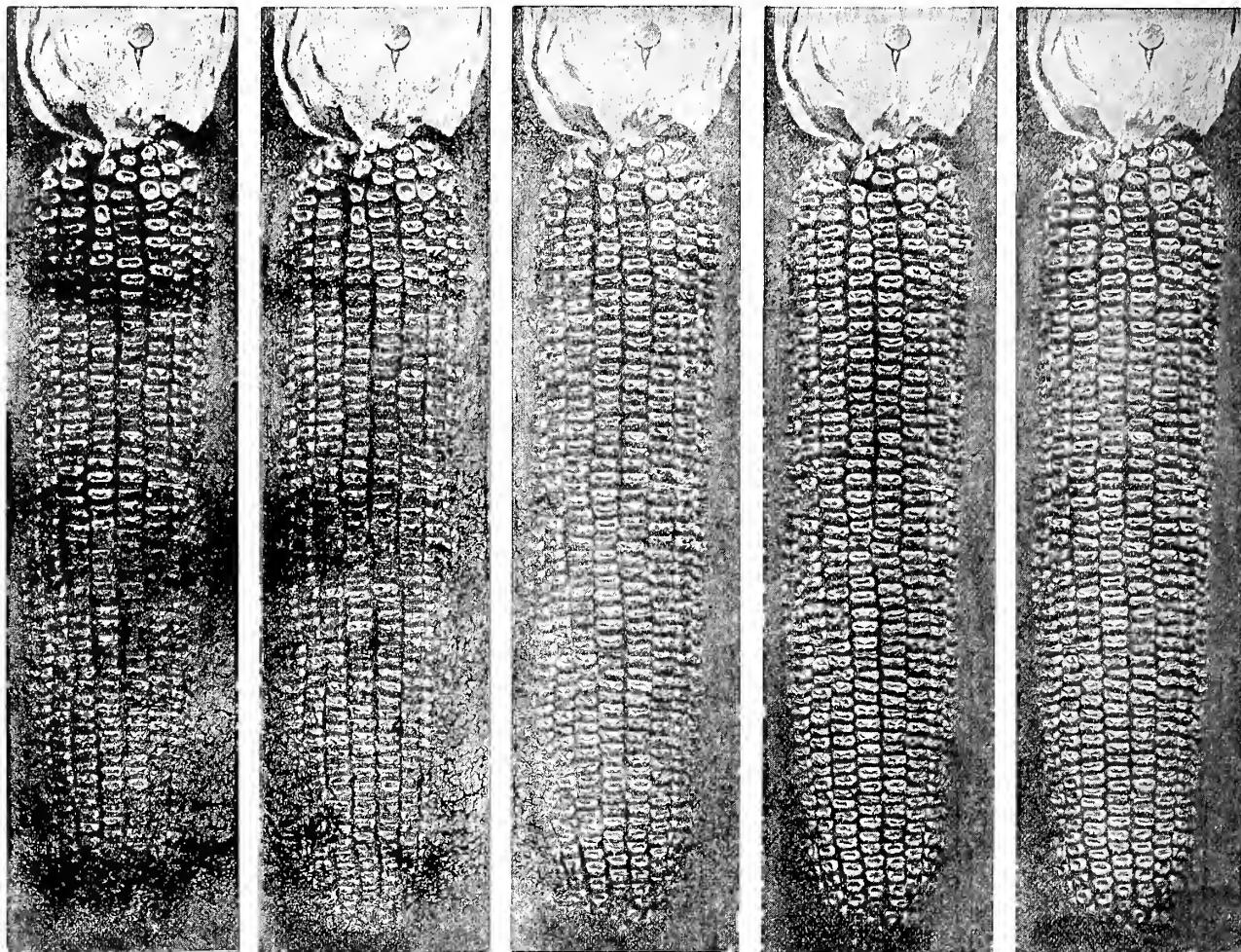
WRITE FOR SAMPLES

Our selections and recommendations are based upon normal weather and soil conditions, and the varieties named will give splendid returns in ordinary years. The extreme north district named on this page is intended to include South Dakota, Minnesota, Wisconsin and parts of the corn belt north of our Iowa line. The other districts are in accord with the division of Iowa as accepted by the Iowa Corn Growers' Association. In good seasons like 1918 most of the large sorts might be moved north 50 miles, but we recommend as stated, believing it better to be conservative rather than lead our friends to plant large late corn in unsuited sections.

THE PROFIT CORN

Our Oldest Thoroughbred Corn. More than Thirty Years of Pedigree

**The Ideal Variety for a Heavy Yield. It Grows a Large Ear Well Up on a Large Stalk,
and Produces an Immense Amount of Feed Per Acre.**



Corn for the silo does not necessarily have to be fully matured like it does if you are to crib it on the ear. If you are in the northern part of Iowa, or the Corn Belt, you can raise Profit Corn for silage, but we would not advise you to plant it expecting to crib it in the ordinary manner. It will mature, however, wherever Reid's Dent can be successfully grown, and we think it will yield more corn, and we know it will produce more stalk than that well known variety. If you have a shredder, or if you use corn for fodder in any way, you will find no variety as valuable as the Profit.

A FEW REPORTS ABOUT PROFIT

A prominent Polk County (Iowa) farmer says: "Profit Corn has outyielded every other variety on my place. Ears are large, extremely solid, and grain is deep."

A customer in Sullivan County, Mo., writes: "Your Profit Corn was very satisfactory this year, although I planted it quite late in the season."

A neighbor to the west of us, living in Guthrie County, Iowa, says of the Profit Corn: "I like it and shall plant entirely of it next season. It is solid and heavy and feels profitable while you are husking it. Matured better than any other corn, there being less loose or chalky ears than with other varieties this season."

From over in Illinois comes the following report: "The Profit Corn I received from you last spring has the right name. It is the best corn for stock. It grows large and is solid and also contains a greater proportion of fat than any corn in our country."

Across the Missouri river, in Nebraska, the Profit has made friends. One of our customers reports: "Your Profit corn has proved a great drouth resister. Every stalk has a good ear, while other varieties of corn yielded but very little. If I had planted my fifty acres with Profit, I would be many dollars ahead on my crop."

Our Profit Corn is our favorite main crop variety. It will produce one hundred bushels of ear corn per acre. It is not so early to mature as Gold Mine or Silver Mine and requires about 110 days to fully ripen. We do not recommend it for planting in the extreme northern districts of Iowa, if a crop of grain is wanted or if the corn is to be sold in the ear. We do, however, recommend it in those districts for fodder or silage purposes. It is a very strong, vigorous grower and produces very large, heavy ears on large stalks. The ears contain from sixteen to twenty rows of grains and these are broad and symmetrical in shape. The color is beautiful, deep golden yellow and no other corn is so fine in appearance when shelled, with the possible exception of our Iowa Gold Mine.

WE RECOMMEND IT FOR A GENERAL CORN

It is recommended for the two central and southern districts in Iowa and in corresponding latitudes and under favorable seasons, we think it will produce more bushels of shelled corn than any variety with which we are acquainted. It contains the largest amount of sugar and starch and matures a big crop. You can raise it profitably either for the market or for feeding purposes. We have grown this variety since 1886 and by careful selection

PRICES

Pkt. 5c, 4b. 25c, 3 lbs.
60e, 7 lbs. (will plant
one acre), \$1.00 hy mail
or express prepaid. By
freight or express, not
prepaid, pk. \$1.50, bu.
\$5.00. See red ink price
list for current values.

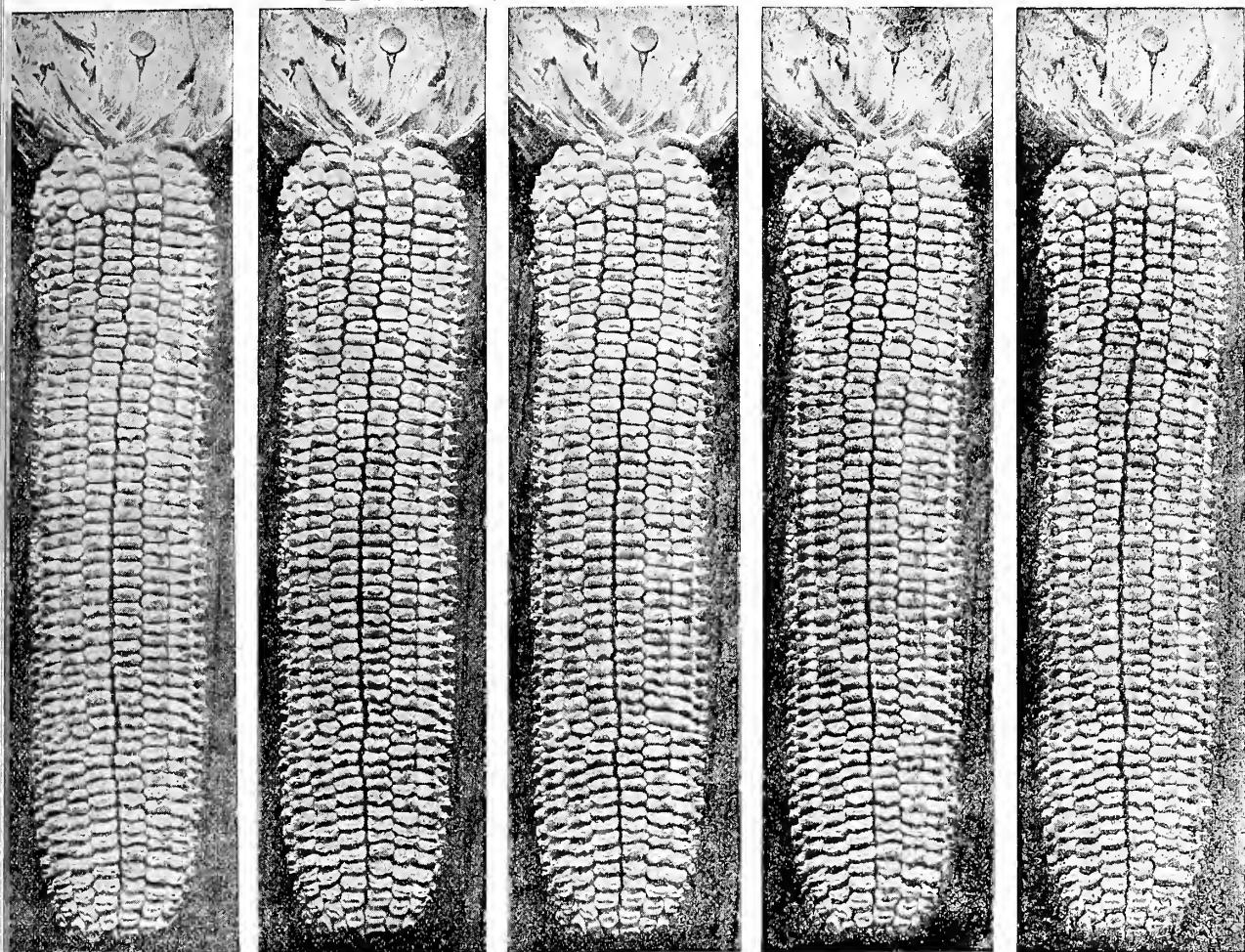
have improved it until it now is given the first place in our list and we believe it to be the best yellow corn now grown. Our object in breeding this variety has been to fix a type of field corn for profit, and profit in corn growing as we understand it means the largest crop of shelled corn, not cobs, matured in a reasonably short time and of the best quality.

IOWA SILVER MINE

The World Wide Favorite White Variety that Always Makes a Crop

Twenty-three Years of Careful Breeding Has Produced the Best White Corn

It Is Possible to Grow in any Part of the Corn Belt.



There is no variety of corn that will grow so well and so generally make a good crop under unfavorable conditions as will the Silver Mine. A change of location seems in no way to diminish the yield or impair quality of this variety when grown from our seed. We have sold it throughout the world, sending it to Egypt and Southern Africa, Australia, Central America, and Mexico, to all parts of the United States and the East Indian Islands, and in every section it has produced good crops and proved its value.

So general is the distribution of this variety and so universal the success of the planters, that, without hesitation, we recommend the Iowa Silver Mine variety for all corn planters, except possibly the extreme north of the corn belt.

It is twenty-three years since we purchased the original stock of Iowa Silver Mine for the sum of \$1,000 in cash. Each year the stock has been carefully selected to maintain all its superior qualities, and isolating it to prevent mixture or taint from any other variety. Our stock is of the original, purchased by us in 1895 and bred continuously since that time under the personal direction of our seed experts, who have thirty years' experience as their guide.

There is a prejudice in the minds of some farmers against white corn. In the markets now, however, white corn sells at a premium, and if you want to obtain the very highest price for your corn, grow Iowa Silver Mine.

IT IS TRULY THOROUGHBRED

The stalk grows to a height of about 7 or 8 feet and sets the ears about $3\frac{1}{2}$ or 4 feet from the ground, just the right height for easy picking. One peculiarity which will be noticed in going over the fields is that there are no barren stalks; every one has an ear, many stalks have two or three good ears, and the originator says that has been characteristic every year that he has grown it. Type is very even. Ears measuring from **10 to 12 inches in length**, and weighing $1\frac{1}{2}$ pounds, are often found. The ears are very uniform in size and shape, with sixteen to twenty straight rows (usually eighteen rows) of deep, pure white kernels, set on small, white cob, and ears are well filled out over the tips. It is early, maturing in ninety-five days. The cob dries rapidly, so that it is ready for market **earlier than any other large white field corn**. Seventy pounds in the ear will make sixty-two shelled. It is adapted to a wider range of soil and climate than any other corn offered.

HERE IS A PART OF ITS RECORD

Everywhere the Iowa Silver Mine captures the prizes over all other varieties. At one fair ten of the largest ears took first prize, ten of the smaller ears took second prize. Afterwards the same ten large ears took sweepstakes over all varieties, both white and yellow, making a total of **\$95.00 in prizes taken at one fair by twenty ears** of the Iowa Silver Mine Corn. It captured the big prize offered by us in 1896, for the largest crop, against all other kinds of any color, yielding 215 bushels. At the Illinois State Fair it took first premium for the best bushel of corn, any color or sort; first for best white corn in the state, **grand sweepstakes for best corn**, any color, competition open to the world. In 1899, the Illinois State Agricultural Society offered three large prizes for the largest crop grown on one acre, and Iowa Silver Mine took all three with crops of **196, 176 and 154 bu. per acre**.

Read the Astonishing Record

of Our Own Prize Contest. It produced 215 bu. per acre in Scott Co., Iowa, the crop being actually inspected by a member of our firm. It yielded 211 bu. per acre in Indiana; 201 bu. in Arkansas; 178 bu. in Illinois; 145 bu. in Ohio; 137 bu. per acre in Texas.

PRICES

For high grade, select seed corn, by mail or express, prepaid: Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00. By freight or express, not prepaid, pk. \$1.50, bu. \$5.00. See red ink price list for current values and write for price in quantity.

REID'S YELLOW DENT

A STANDARD VARIETY IN THE MIDDLE WEST
THOROUGHBRED, PEDIGREAED, CAREFULLY SELECTED STOCK
OUR SUPERIOR TYPE

A Splendid Strain of Sustained Purity and Excellence

The Reid's Dent Corn is perhaps the most generally grown and farmers generally better informed about it than any of the other varieties. It has been a principal sort at all corn shows for a number of years. Because of its show record it is widely known and generally distributed. It is very popular because of the large, smooth, symmetrical ears, which are always uniform, and it is one of the most attractive sorts for markets selling on the ear. Reid's Dent is not an early variety. It requires about 115 days to mature under favorable conditions and we do not, therefore, recommend it for planting north of central Iowa. Sometimes it makes good crops in Minnesota, but it cannot be depended upon to ripen in short seasons in that latitude. It can be grown for silage or fodder uses and will be found of value.

Our particular strain is far superior to the common strains found on most farms. Our original stock was direct from Mr. Reid, introducer and we have grown it continuously for years. We have bred it to retain the purity, type and heavy yield and at the same time we have looked to earliness because it is necessary to have as early type as may be procured and which does not sacrifice size and yield. Our seed is grown at Altoona. This particular point is one of the highest in altitude above sea level in our state. The soil is heavy black loam and our experience proves that seed corn produced in this locality will grow anywhere in Iowa. The soil conditions mature the corn more slowly than on lighter or sandier soil and it is because of this location that our seed corn will successfully grow far to the north of us and is superior in fact to most of the seed corn produced in other sections of the state.

If you can grow Reid's Dent, buy your seed from us. We will make good our claims of superiority by increased yield of splendid large corn at harvest time. There is no better strain anywhere and it is not only pure and of superior type but is a better yielding stock than is usually grown.

PRICES: Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00
by mail or express, prepaid. By freight or express, not prepaid, pk. \$1.50, bu. \$5.00. See red ink price list for current values.

SEED CORN FOR ALL DISTRICTS

Many authorities claim it is not wise to move corn more than fifty miles north of the point of production. The position may be accepted under certain conditions. We do not recommend that Reid's Dent or Profit corn be taken more than fifty miles north of Des Moines. The thermal lines, however, do not run exactly east and west but vary with the topography of the country. The same varieties will grow and ripen around Sioux City and in northeastern Nebraska and at Des Moines, while for northeastern Iowa and Wisconsin only the early varieties can be recommended. We have sold seed corn for many years and we know from experience that we can give you seed corn suitable for any locality. In our opinion it is more a matter of variety and type than of location. On page 41 we give brief selection of varieties suited to the different corn districts north of Des Moines, and our recommendation is based on our thirty years experience. The real corn belt does not extend more than two hundred miles north of Des Moines. Corn can only be grown beyond that point to the north of small flinty types which are not suited to the real corn country. In making descriptions of the varieties we grow, we have endeavored to make plain the range where each may be safely planted, but if there is any question about any variety being suited to your planting, write us and we will advise you honestly and to the best of our ability. We have provided some northern grown seed corn for northern planters.

LENOCHER'S HOMESTEAD

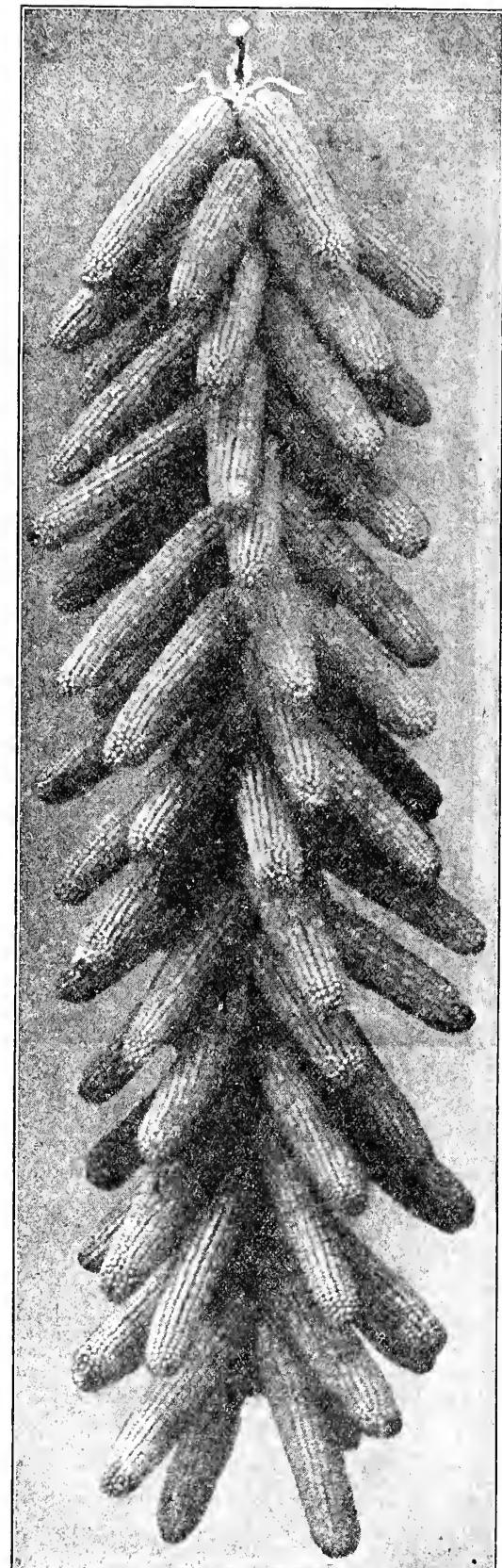
The Greatest Red Corn Ever Produced
A Hundred Bushels Per Acre Variety

This is the corn that won the Iowa Homestead prize of \$100 for the best three acres of corn grown under ordinary methods. The crop produced yielded 345 bushels on the three acres on the farm of Mr. G. F. Lenocher, a practical farmer and feeder of Dallas County, Iowa. We made arrangements with Mr. Lenocher to introduce the corn to the public and gave it the name of Lenocher's Homestead and have offered it for sixteen years. It is given as great care with us as our other sorts and our stock is carefully selected for seed purposes. The color is a rich, dark red with occasional light caps grain deep and hackled; ear somewhat above the average with small cob which dries out rapidly so that it is not likely to be caught by frost. It is perfectly safe corn to plant in central and southern districts of Iowa and may be grown anywhere that Iowa Silver Min matures. It is a splendid silage corn for all locations, and produces good crops in unfavorable seasons when other corns will hardly make nubbins. Don't let your prejudice against red corn prevent a trial of this splendid corn, for we give you our assurance that it will produce more actual corn per acre than the kind you are growing, and it makes just as good feed as any other sort. There is no prejudice on the part of the live stock or the silo against red corn, and if you plant Lenocher's Homestead the great yield per acre will overcome your prejudice.

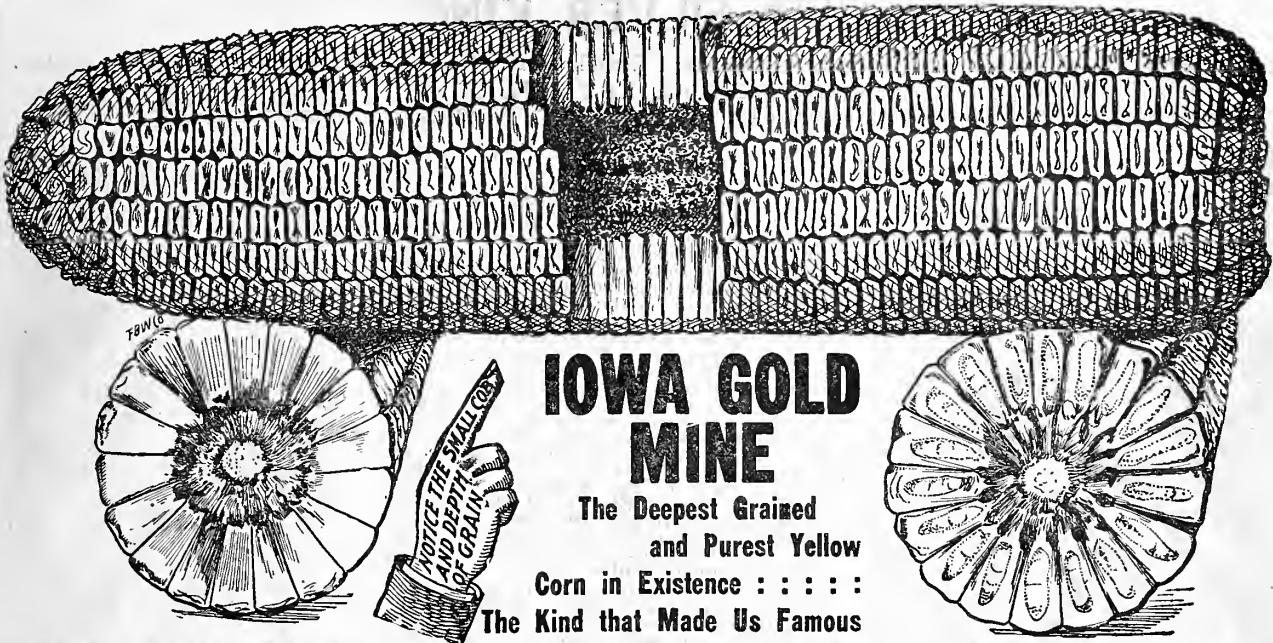
PRICES: Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00
by mail or express, prepaid. By freight or express, no prepaid, pk. \$1.50, bu. \$5.00. See red ink price list for current values

Your Lenocher's Homestead corn is out of sight. My neighbors bought all could spare for seed purposes, and I had hard work to keep seed enough for my own use.—Frank Degnan, Seneca County, Illinois.

Lenocher's Homestead is the best corn I ever fed. Earliest variety in these parts.—J. Abrle, Doniphan Co., Kansas.



Last spring I got some Reid's Yellow Dent seed corn and will say it is as fine as any corn I ever saw. I don't think it could be beat in the state.—A. A. Westbrook, Ira, Iowa.



IOWA GOLD MINE

The Deepest Grained
and Purest Yellow
Corn in Existence : : : :
The Kind that Made Us Famous

THE GREATEST FEEDING CROP FOR THE NORTHERN AND CENTRAL DISTRICTS

It is early, ripening in 95 days, and can be planted in the northern corn belt and compete successfully both in yield and maturity against corn from locally grown seed. Ears are not extra large, but of good size and symmetrical; color is a bright golden yellow, as handsome as a twenty-dollar gold coin just from the mint; grain is very deep, cob small and therefore dries out very quickly.

IT HAS THE COLOR

If you want to get top market prices for corn, just shell a carload of Iowa Gold Mine with a machine that will clean out broken cobs and trash, and you will have No. 1 yellow, something that very seldom appears in the big markets. It has color, it has depth of grain and it will have soundness necessary to pass the closest inspection. Gold Mine will ripen and produce good corn in any season, something that cannot be said of many of the large-eared varieties. Plant it, tend it and study it and we have confidence to believe that you will agree with us that Iowa Gold Mine is the very best variety of corn for the farmers of the central and northern corn belts.

IT HAS DEPTH OF GRAIN

Seventy pounds of ear corn makes 62 to 63 pounds of shelled corn, and in hauling to market it weighs out five bushels more to the wagonload than common varieties in the same size wagon. We have shelled select ears of this variety which produced 64 pounds of shelled corn and only 6 pounds of cob to the bushel. This is an unparalleled record. It cannot be equalled by any other corn in the world. One carload lot of 400 bushels of Iowa Gold Mine corn was carefully weighed, and after shelling it was reweighed and there was just 456 bushels. Just think of it—a gain of 14 bushels to the 100.

GET A PREMIUM FOR IT.

We do not recommend this as a corn to haul to market at ordinary prices. If you sell it either demand an advance over market price or sell on the basis of shelled bushels.

PRICES Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00, by mail or express prepaid. By freight or express, not prepaid, pk. \$1.50, bu. \$5.00. See red ink price list for current values and ask for price in quantity.

80 DAY FLINT CORNS

Ready For Use a Month Earlier Than Ordinary Varieties

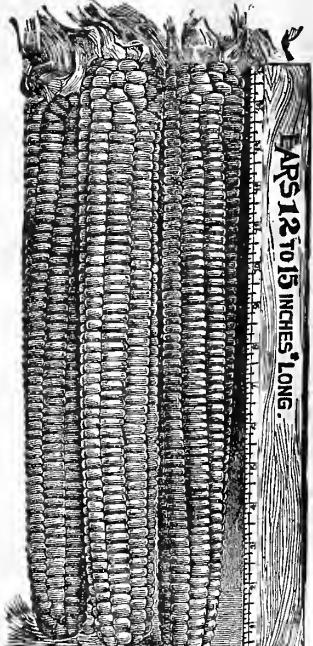
The great value of the Flint varieties of corn is in the production of early feed for live stock. The matured grain is hard and cattle cannot manage it very well but the pigs will thrive upon it as well as upon the dent variety. However, the best use for these is the production of quick food for your stock, because it is sufficiently matured for feeding far in advance of the dent varieties.

SANFORD'S EARLY WHITE FLINT

This standard variety is considered the best flint corn on the market. The ears are of unusual length, 12 to 15 inches, and handsome shape, flinty white color. Plants of sturdy, vigorous growth; leaves are very broad and succulent, and it is therefore of great value for fodder and ensilage, as well as for a grain crop. Stalks usually bear two or three long ears. Pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. By frt. or exp., not prepaid, pk. \$1.50, bu. \$5.00, 2 bu. or more at \$4.85 per bu.

IMPROVED YELLOW FLINT

An eight-rowed yellow flint variety with ears from 10 to 15 inches long, 1½ to 2½ inches in diameter, and well filled out to the extreme end of cob. The cob is small and the kernel large and broad; rions in 75 to 85 days. Excellent for ensilage and is often used here for replanting. Pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. By freight or express, not prepaid, pk. \$1.50, bu. \$4.50, 2 bu. or more at \$4.40 per bu.

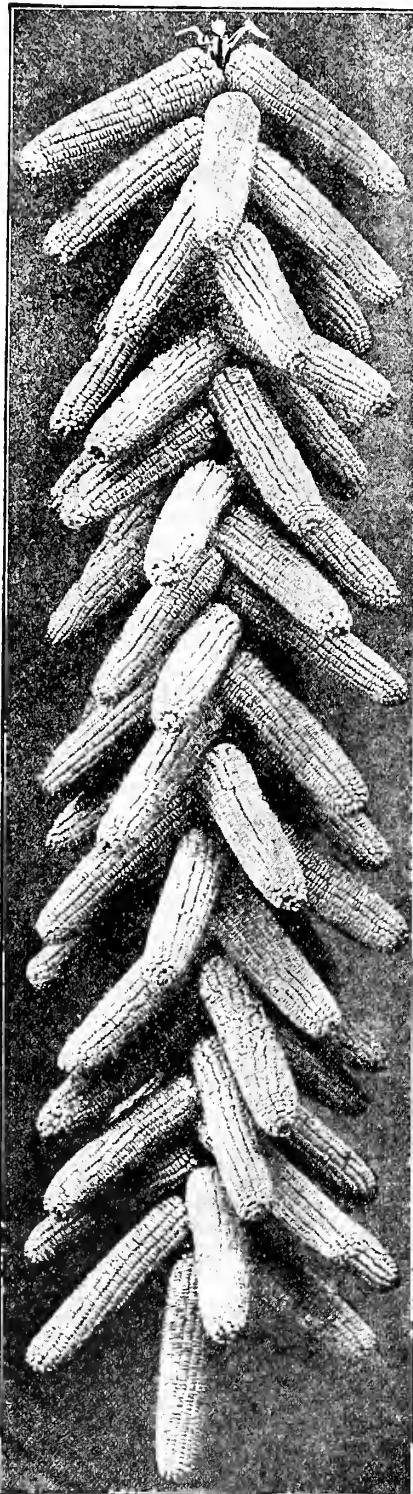


SANFORD'S WHITE FLINT CORN

IOWA SILVER KING

A SUPERIOR NINETY DAY VARIETY SUITABLE FOR PLANTING IN NORTHERN IOWA
AND EQUAL LATITUDES

OFFERED ALSO BY VARIOUS HOUSES AS "WISCONSIN NO. 7," "WISCONSIN WHITE DENT," ETC.



The Iowa Silver King is an extra early white variety which was originated by Mr. A. L. Goddard, of Kossuth County, twenty-five years ago. Its place of origin is close to the Minnesota state line and it is extremely early to mature so that it is safe to plant it almost anywhere that corn is grown. It is not very widely distributed in the central and southern districts of our state but it would be found a profitable crop anywhere because it is safe to plant it as late as July 1st and procure a crop of mature corn. If planted at regular time of corn planting it will mature thirty days in advance of the large late kinds and this is nearly always a great advantage, especially to the live stock feeders. The originator gave it the name of Silver King which is the proper designation. It was tested and bred for a number of years by the Wisconsin Agricultural Experiment Station at Madison and was disseminated by them under the name of "Wisconsin No. 7." From this it became known among some of the seed dealers as Wisconsin White Dent.

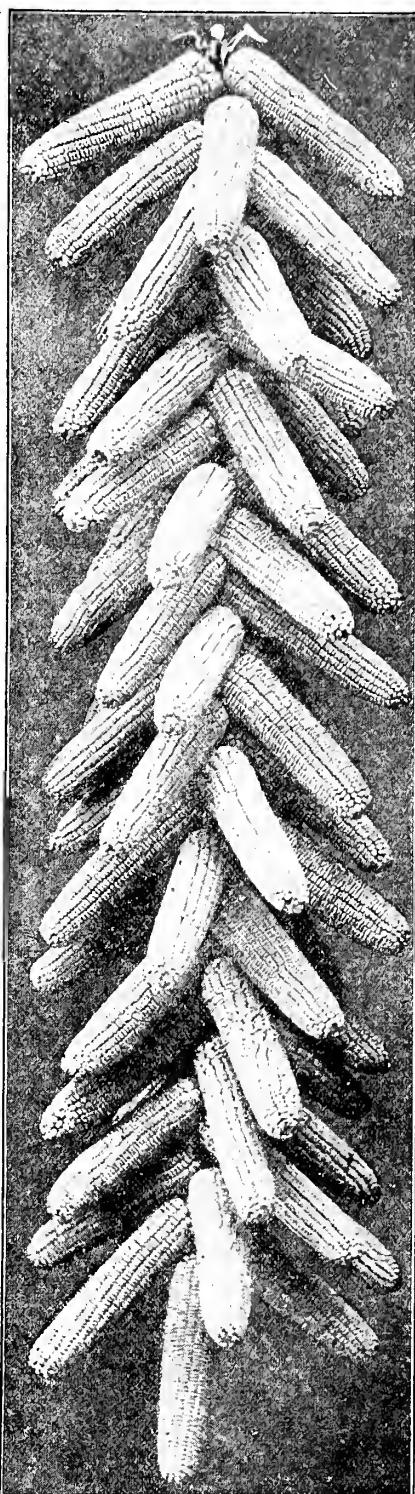
It is, however, an Iowa corn and we offer it under the Iowa name. By reason of the publicity given it by the Wisconsin station it is extremely popular in that state and under the Wisconsin title is frequently and generally known in Minnesota and other portions of the northern corn belt.

HAS YIELDED 93 BUSHELS PER ACRE

It has a record of 93 bushels per acre with ordinary methods of cultivation. The highest yield ever recorded is 137 bushels per acre, produced in 1913 in the Wisconsin acre contest of that year. In the boys' acre contest there at the same time, the record was 103 bushels per acre. Naturally these were forced yields, but we believe on strong land, with heavy planting of three stalks to the hill, one hundred bushels per acre might be harvested. With good seed carefully grown, such as we offer you, a crop may be produced which will prove most profitable. It will bring the topmost price in the market. There is no question about its yielding qualities; and while many prefer a yellow corn, to those who have no prejudice against color the Silver King is recommended as a profitable sort. The stalk is strong and vigorous, grows moderately tall, and the ears are carried at just the proper height for harvesting. The ears are symmetrical, about eight or nine inches long, and in fact it is a splendid sort in every characteristic of good corn. The seed we offer is from pedigreed stock which has been grown for us a number of seasons and we can recommend it to our customers as entirely suited for their planting. Because of its early maturity we are sure that it is well adapted for planting in any locality and we particularly recommend it to our northern patrons.

IT IS A DISTINCT TYPE

It might well be called a small-eared Iowa Silver Mine because of shape of ear and general appearance. It resembles that well known variety. It is a little smoother and the grain is a trifle harder and the ear a little smaller. It grows very uniform and the ears show evidence of careful breeding and thorough fixing of the type. This is no doubt due to its being acclimated to the North where the seasons are short. With good seed, carefully grown, such as we offer you, a crop may be produced which will prove most profitable, and bring the topmost price in market. Because of the early frosts there is but little seed corn in the northern district and we hope our friends in that section will not overlook our early varieties.



PRICE IS LOW FOR QUALITY

When you consider the unprecedented price of ordinary corn in the markets, you will readily understand that our price for carefully sorted and graded seed, grown from pedigreed stock with extra care, is really cheap. The cost per acre is not heavy and you ought to start now to plant pedigreed seed corn.

PRICES: Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre)
\$1.00, by mail or express, prepaid. By freight or express, not prepaid, pk. \$1.50, bu. \$5.00. See red ink price list for current values.

THE EARLIEST LARGE CORN

FARMERS' RELIANCE

THE LARGEST EARLY CORN

RECOMMENDED BY US FOR GENERAL PLANTING.

It originated in central Iowa about forty miles east of Des Moines and it was the result of scientific hybridization by a practical seed grower, which was followed by careful selection for many years, and which we have continued ever since the corn was first secured by us. It is greatly valued because it is early to mature and is always sound, and because of the large size of the ear will make a good crop of sound corn in almost any season. Grows successfully in northern Iowa, Minnesota, southern Dakota and Wisconsin, as well as in the central portion of the corn belt. The stalks usually have from 9 to 11 blades while most ordinary corn has 13 blades. Of very strong, vigorous character, growing more rapidly than any other variety from the day it is planted. Leaves quite broad, of dark emerald green, healthy color. Has been planted as late as June 26th and yielded a splendid crop. We claim it will mature in 90 days. An average bushel of 70 lbs. will make 60 lbs. shelled corn. It has for years been selected from stalks which set the ears about 3 ft. from the ground and this has a tendency to make it earlier. Fully 40 per cent of stalks produce two good ears. It is the "farmers' reliance" every year.

PRICES: Per lb. 25c, 3 lbs. 60c, postpaid. By frt. or exp. not prepaid, pk. \$1.50, bu. \$5.00. See red ink price list for current values.

PRIDE OF THE NORTH

THE EARLIEST VARIETY OF YELLOW DENT CORN.

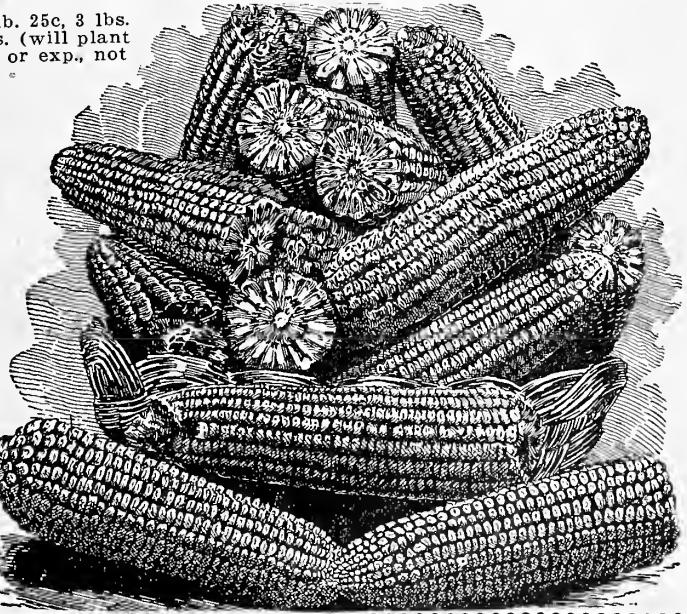
MATURATES SOUND AND DRY IN NINETY DAYS

If for any reason you can not plant at the proper time, you can, by using Pride of the North, raise a crop in 30 days less than large field sorts. We have known it to make a crop of good, sound corn planted after the 4th of July. It is the variety that is extremely valued for "hogging down." Planted May 15th it will be ready to turn over to the live stock by August 1st. If your ground is strong and rich, we recommend that you plant three grains at least and possibly four to the hill, because you cannot expect to get a large ear; and to secure a heavy yield you must make up in numbers what is lacking in size. The quality of the corn is extra good. There is no sort, with the exception of our Gold Mine, which is better for the feeder than Pride of the North. The cob is extremely small and there is not more than seven or eight lbs. in a bushel of ears. The grain is very long and sets closely on the cob. It is extremely rich in oil and sugar and goes farther in flesh production than ordinary sorts. It will ripen in ninety days and can be used for feeding in eighty days in favorable seasons.

PRICES: Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00, postpaid. By frt. or exp., not prepaid, pk. \$1.50, bu. \$5.00.

SWEET FODDER CORN

Here is a valuable item for the dairyman or for the grower of live stock. It is claimed by dairy farmers that Sweet Fodder Corn will increase milk and cream production greatly and keep the animals in the best condition. It has the further merit of being so sweet and palatable that the cattle eat every part of the stalk and leaves. You can usually plant this as early as May first, or any time thereafter, as suits your convenience, up until the first of August. If planted on May first it should be ready for use as forage in sixty days, and this is therefore a great advantage because it is perhaps the quickest of all forage plants. The great value lies in the heavy sugar content contained in both the stalk and the ear. There is a much greater proportion of sugar in this than in the ordinary field corn and sugar is the real element of food value in corn. For best results, plant somewhat thicker than ordinary field corn, using 3 to 5 grains in a hill, or drill it in rows, allowing 10 or 12 inches apart for each plant. Grown on strong soil it will grow 10 to 12 feet high and produce almost an incredible quantity of fodder, which when well cured is equal to hay and much cheaper in cost. Per lb. 25c, 3 lbs. 60c, postpaid. By frt. or exp., not prepaid, 3 lbs. 50c, 10 lbs. \$1.00. See red ink price list for values.

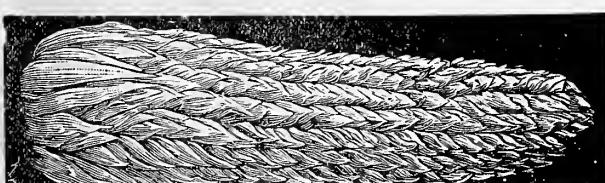


SOME UNIQUE AND NOVEL VARIETIES OF CORN

NEW CENTURY WONDER

PRIMITIVE OR HUSK CORN

It is from this wild variety that all of our civilized sorts have sprung. The ears are of fair size and each individual kernel or grain is covered with a husk and all is enclosed in an outer husk like common corn. In some of the wild and uncultivated parts of Mexico, the primitive or natural corn can still be found growing wild. It is quite curious and valuable for exhibition purposes and attracts great attention wherever seen. Pkt. 10c. Specimen ear 40c, postpaid.

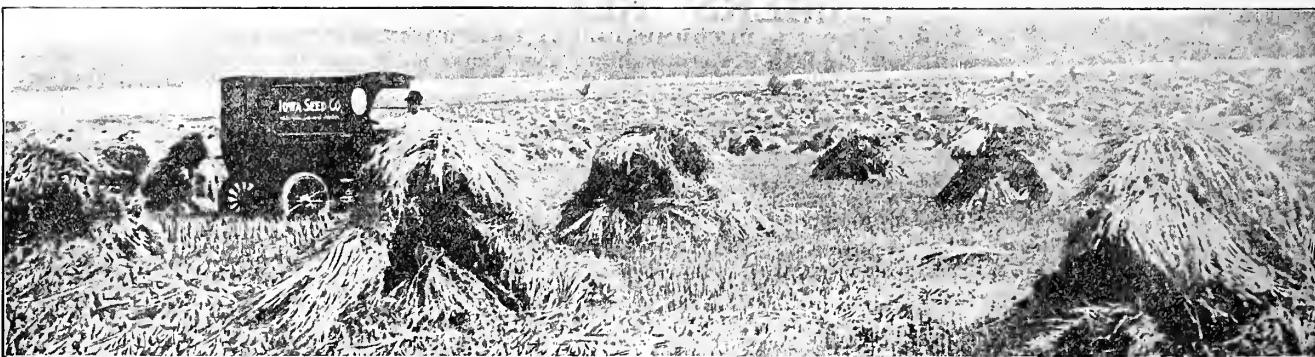


PRIMITIVE OR HUSK CORN

A wonderful variety from South America, different in many respects from other sorts. Instead of growing like ordinary corn, one stalk to each kernel planted, it stools like winter wheat, producing 10 to 20 stalks from each seed. Often 3 to 7 ears to stalk, being 8 to 10 in. long, and of most clean, snow-white color. Of excellent quality for the table like sweet corn; when dry and ground makes the cleanest, finest, whitest meal. An improvement on Brazilian flour corn, being acclimated by growing in the north. Plant early as it requires the whole season to mature in this latitude. Pkt. 10c, 1/4 lb. 15c, 1 lb. 40c, 3 lbs. (will plant one acre) \$1.00, postpaid. By frt. or exp., not prepaid, 1/2 pk. 85c, pk. \$1.50.

COBLESS CORN

A unique curiosity. The grain grows at the top of the stalk, where the ordinary corn produces the tassel. Each grain is enclosed in a husk in the manner of primitive corn, while the head resembles sorghum or Kaffir, except that the grain itself is true corn, hard and flinty, about the size of grains of ordinary flint varieties. Sold only in pkts. at 10c.



SELECT GRADE SEED WHEAT

The government has guaranteed a price of \$2.00 per bushel at the central market for the 1919 crop of wheat. Iowa produced more wheat last year than usual, although there is only an ordinary crop of wheat in 1918 in the U. S. It will undoubtedly all be needed and go to market before the new crop can be harvested. Because of these conditions, we this year recommend to our friends that they sow spring

wheat in Iowa. Many farmers do not appreciate the difference in wheat for sowing and do not understand that the difference in yield is quite frequently caused by the difference in the quality of the seed used. Our growers last year secured yields ranging as high as thirty-one bushels per acre, and our best yields and the best crops were reported from those where pedigreed seed was planted.

MARQUIS

Ten Days Earlier than Blue Stem or Red Fife and Produces Five to Ten More Bushels per Acre

This is the wheat that won the \$1,000 prize at the New York Agricultural Exhibition against all exhibitors, representing every wheat growing section of the western hemisphere. Superior to any known variety in milling and baking qualities. It has recorded a yield of fifty bushels per acre. It was originated at the Experiment Station at Ottawa, Canada, and introduced to the public in 1905. It is a favorite in Minnesota and the Dakotas, and we have found it the best beardless variety for Iowa planters. We grow our own stock in Iowa because we find that acclimated seed is better for our friends than stock secured from the North. We recommend it as the best beardless spring wheat for this latitude. Grows stiff, strong straw of medium height, has round, dark red kernels and matures two weeks earlier than the old standard blue stem types. Popular because free from beards and not so hard to handle at harvest. Per lb. 25c, 3 lbs. 60c, postpaid. See red ink price list for current values.

MACARONI OR DURUM WHEAT

It will yield more bushels per acre than ordinary varieties. Our grower secured a yield of twenty-nine bushels per acre last summer and we recommend it as a profitable sort. It seems to be always a sure crop and is exceptionally well adapted to the semi-arid portions of the Middle West. It grows very strong and vigorous and gives a good return on poor land.

The grains are hard, glossy often translucent. They are large and plump and are really beautiful. The same price has been fixed by the government for Macaroni as for ordinary kinds. It seems to be freer from smut or rust than ordinary varieties. Sow early in spring, using one and one-fourth to one and one-half bushels per acre.

WINTER WHEAT

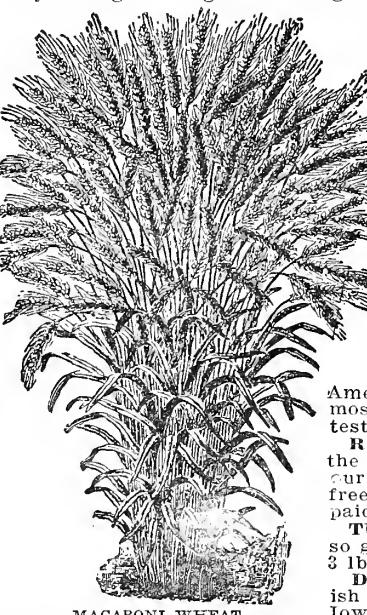
For years we have made a specialty of furnishing farmers with choicest seed of winter varieties. We have urged upon them the value of this crop from a money standpoint with the result that the production of winter wheat has steadily grown in volume and our friends have made a profit from this crop. We issue a price list of winter wheat about Aug. 1st.

IOWA 404.—This is a strain of Turkey Red variety developed at the Agricultural College at Ames, Iowa, and they offer it as the hardiest and most prolific sort among the many which have been tested on the trial plots of the college farm.

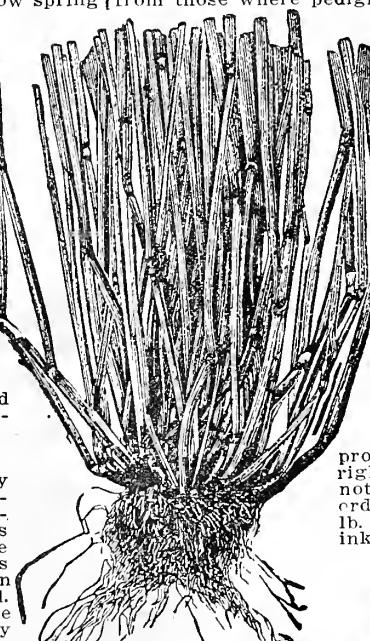
RED CROSS.—The best beardless winter wheat for the corn belt. This variety is immensely popular with our patrons because of hardiness, heavy yields and freedom from harsh beards. Lb. 25c, 3 lbs. 60c, postpaid. Ask for prices in quantity.

TURKISH RED.—The great standard winter variety so generally recommended by all authorities. Lb. 25c, 3 lbs. 60c, postpaid. Ask for prices in quantity.

DEFIANCE.—Our greatly improved strain of Turkish Red which has a record of over 59 bu. per acre in Iowa. Has never failed to produce a profitable crop.



MACARONI WHEAT

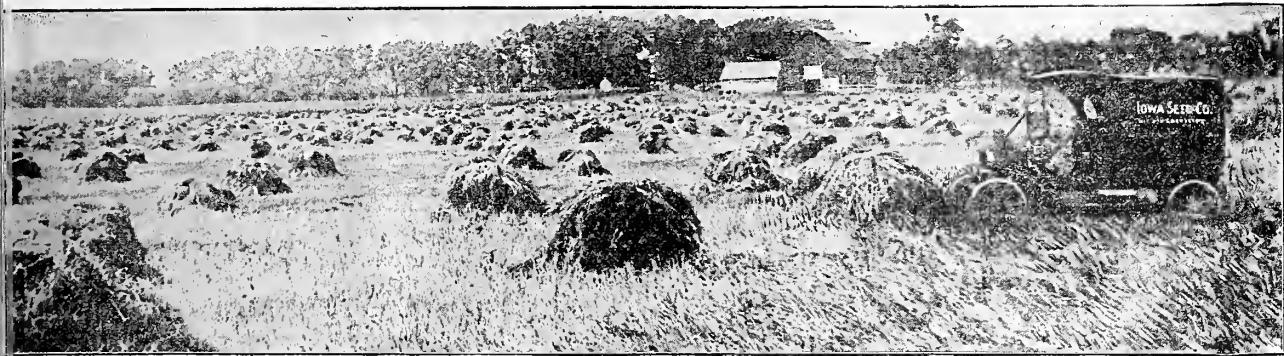


EARLY JAVA WHEAT

EARLY JAVA
The early bearded sort that is so prolific and gives best returns in the corn belt. This is a bearded variety which for five or six years past has given far better satisfaction in central Iowa than any other bearded variety and wherever introduced it is driving other sorts out. The farmers are delighted with it. It is a variety of spring wheat, about ten days earlier than the Velvet Chaff or other standard sorts, and thus escapes the extreme hot weather so injurious to small grain. It is usually ready for harvest as early as winter wheat, and therefore desirable to sow on land where winter wheat has partially failed. A good crop can this way be secured from fields which would otherwise be unprofitable and the wheat would be all right for milling purposes, but would not do for seed. Yields in this vicinity ordinarily about 25 bu. per acre. Per lb. 25c, 3 lbs. 60c, postpaid. See red ink price list for current values.



MARQUIS WHEAT



Send for Free Samples for Comparison

If you want a large quantity of seed oats of any variety we handle, write us for special prices.



SILVER MINE

IOWA GROWN SEED OATS

BUY THE IOWA GROWN SEED

We are confining our offerings of oats to the three varieties which will give the greatest yields, the best grain and yet meet the needs of special requirements. For the farmer who wants to sow grass seeds with oats we recommend the White Kherson (Iowa 103) on ordinary soil or the Richland (Iowa 105) on strong soil. These varieties do not make such rank growth of straw as other sorts and therefore are not so likely to smother out the young grass plants. They will not lodge under ordinary conditions and this also is an insurance that the young grass will not be destroyed when storms come that will beat down the larger kinds.

Any of the varieties we offer will make good grain crops. If your soil is thin and you want early oats sow White Kherson (Iowa 103). If your land is too rich for the ordinary kinds sow Richland (Iowa 105). It ripens early and will not lodge and at the same time will make good returns. If you want a large, plump grain of best quality and to command the best market price sow Silver Mine. This is medium early and a sure cropper. We will not recommend to our friends the large, late sorts nor those grown too far north.

WHITE KHERSON (Iowa 103)

A NEW PRODUCTION FROM AMES COLLEGE

Bred by Prof. L. C. Burnett, agronomist at the Iowa Agricultural College, and introduced by us. Prof. Burnett gave it the designation of "Iowa 103" and we gave it a trade name as "White Kherson" because we believed that numbers might become confusing. It is without doubt the most popular variety in our state. In fact, it is apparently becoming the universal oats and is crowding out the larger later varieties everywhere. It is very early, and while the grain is not very large, it is plump and heavy, with a thin hull. It seems to be free from blight or rust. The straw is strong and stands up well on good soil. Many yields are this year reported as high as one hundred bushels per acre and we believe it is the best oats now grown for general crop. When growing in the fields, it would appear to be a rather shy yielder, and many growers have been disappointed with it until threshing time, when the results have been so surprising that the farmers have been delighted with the final outcome. It has proven itself in this way to everyone who has grown it. Our seed is pedigreed stock grown continuously by us since the first seed was given us by Prof. Burnett, and it has always been given great care in seed selection and in grading. We know, therefore, that we have better stock than you can buy from ordinary sources. Per lb. 20c, 3 lbs. 50c, postpaid. See red ink price list for current prices.

THE RICHLAND OAT (Iowa 105)

THE BEST VARIETY FOR RICH, STRONG LAND

This is another variety from the Agricultural College and was bred by Prof. L. C. Burnett at that institution and it was sent out to the farmers as the best variety yet found for strong, rich ground, where the ordinary varieties of oats would lodge or make excess growth of plant rather than large crops of grain. It does not grow very tall, but has stiff, strong straw and it will stand up under adverse conditions better than any other variety now known. It is very early and produces wonderful crops and competes with the White Kherson in quantity produced. The grains are medium sized, light yellow in color, plump and heavy. Resembles the original Kherson oats in color and general habit, but is far superior to that sort in every way. See red ink price list for current values.

SILVER MINE

THE POPULAR MAIN CROP VARIETY

Standard for main crop in Iowa and from comparative tests for a period of years has proven its ability to produce good crops under ordinary conditions, year after year. Reputation of yielding immense crops of 100 bushels per acre in favorable years. Grain is large, plump and heavy with a reasonable thin hull. Quite hardy, vigorous, stands well and shows little tendency to rust or lodge unless soil is extra rich. Has splendid record in comparative tests at Iowa Agricultural College. Will bring top price in market because of bright color. See red ink price list for values



WHITE KHERSON



HIGH GRADE SEED BARLEY

MANDSCHEURI.—Improved strain of standard six-row bearded barley. The standard market variety by which all are graded and therefore the most popular bearded sort. It is an early variety, very strong, stiff straw, stands up and stools well. It bears large well-filled heads of plump-berried grain. Per lb. 25c, 3 lbs. 50c, postpaid. See red ink price list for current values.

ODERBRUCKER.—First introduced into the United States from the Agricultural Experiment Station at Guelph, Ontario, Canada. Bred and disseminated at the Wisconsin Agricultural College by Prof. R. A. Moore, who claims it is the greatest barley in this country for feeding or malting purposes. It and Mandscheuri have held the record for many years for the heaviest yielding sorts. It is bearded, and in manner of growth similar to the Mandscheuri, but

the straw is somewhat stronger and stiffer, and will stand up on the richest ground. Will not rust and is free from smut. Per lb. 25c, 3 lbs. 60c, postpaid. See red ink list.

SUCCESS BEARLESS.—A very valuable variety. The earliest barley known. The straw is about the height of common barley and will stand up on any land; on good land will produce 80 bushels per acre. Sow as early as you can; frost does not hurt it. Many farmers will not grow barley on account of the long, harsh beards which are so disagreeable in threshing, although it is a profitable crop. This is beardless and as easy to grow and handle as oats. It has hulls like the Mansury or any other old variety, and the quality is excellent, both for malting and for feeding hogs. Per lb. 25c, 3 lbs. 60c, postpaid. Write for prices or see red ink price list.

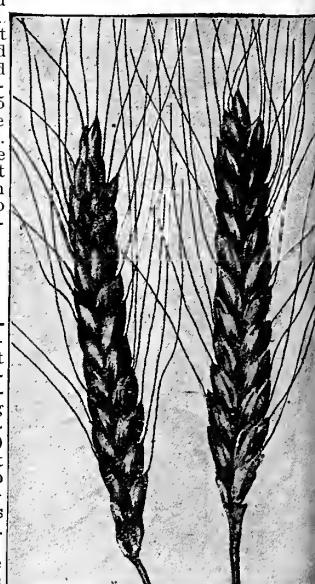
SPELT, OR EMMER

This new grain was first introduced into this country by our house several years ago, has proven of great value. It has become a staple crop in all sections of the West and Northwest and its position in the list of grains is thoroughly established. It is grown and handled in the same manner as barley. It should be threshed on feeding as the process breaks up the beards and straw so that the animals eat it more readily. It is splendid feeding grain, in our opinion second only to corn and in dry or cold sections where corn will not mature Spelt will be the very best live stock feed that can be produced. It is in the cold and arid regions that it thrives best, and will yield wonderful crops under adverse conditions. Records of 75 to 100 bushels of grain and 3 to 5 tons of straw are reported from Kansas, Nebraska and the Dakotas. It can be used for pasture and hay after the manner of rye. Its value lies in its hardiness, great yields, and feeding value, and it can be grown anywhere in the corn belt with profit. Use 50 to 75 lbs. seed per acre. Per lb. 25c, 3 lbs. 60c, postpaid. See red ink price list for current values.

SEED RYE

MAMMOTH SPRING RYE.—This is quite different from the winter rye and is highly valued wherever known. It is not only more productive but the grain is of finer quality and it can be successfully grown in any latitude. The straw is of special value as it stands six or eight feet high, being better than that of winter rye and producing nearly four times as much straw as oats. Produces 30 to 40 bushels of grain to the acre. As it does not stool like winter rye, not less than two bushels to the acre should be sown. There is always a demand for first quality rye straw and the price is nearly always remunerative. Pkt. 5c, lb. 25c, 3lbs. 60c, postpaid. See red ink price list.

MONSTER WINTER.—We consider Winter Rye one of the most important of all farm crops. It is usually sown in the fall. If sown early in the spring it makes an early and abundant pasture, but makes no grain crop. See red ink price list for current values.



HEADS OF SPELT



VEGETABLE FARM CROPS

Many of our best and most profitable farm crops are listed in this catalogue among the vegetables, and we have thought best to call our farmer friends' attention to them at this point, for fear they might be overlooked or not appreciated because they did not appear in the Farm Department.

Mangel Beets (see p. 7).—Are of special value to the stock feeder and produce enormous crops.

Carrots (see p. 10).—Are another root crop producing heavy crops and recommended to horsemen and dairy farmers.

Pumpkins (see p. 30).—Two crops on one field if you plant them in the corn. Seems like there are never enough in the markets.

Onions (see pp. 22, 23).—Always salable at profitable prices, for they can be sent to market without loss or shrinkage.

Citron Melons (see p. 21).—Grown in dry sections, in preference to pumpkins for stock feed; are used in same way.

SEED FLAX

It will pay you to sow nice, pure, high-grade flax seed. For several years the available supply has not equaled the demand and prices have ruled very high. Our seed is thoroughly re-cleaned, free from mustard or any other weed seed and is as good as can be purchased anywhere. Do not buy flax seed on open market. It is generally full of weed seed. One of the most profitable of crops, especially on new land. Price subject to change. Per lb. 20c, 3 lbs. 50c, postpaid. Price fluctuates greatly. Ask for quotations when in the market, or send for red ink price list.

EVERGREEN BROOMCORN

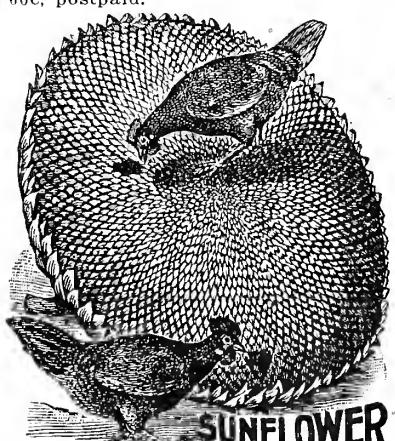
FLAX

BUCKWHEAT

Buckwheat is a valuable crop for those parts of the farm which always seem to be left unplanted at the close of the season. Generally sown in July and will fill up the vacant plots at a time when all other planting is past. Can be sown after crop of winter wheat or rye and make a second crop. Also largely used as a winter covercrop in orchards and nurseries. Use about one-half bushel seed per acre. Prices subject to change. See red ink price list.

JAPANESE.—A week earlier than Silver Hull and yields more. Flour is equal to any other buckwheat, while it is more productive than any other, and succeeds well far north. The kernels are quite large, but the straw is heavier and it branches more; need not be sown as thickly as other kinds. Per lb. 25c, 3 lbs. 60c, postpaid.

SILVER HULL.—Very good, popular variety. Grain is light gray color, rounder than the common variety, has a thinner husk, earlier and yields more. It is preferred by the mills grinding buckwheat flour as it makes a smaller proportion of hull to flour than any other sort. Lb. 25c, 3 lbs. 60c, postpaid.



SUNFLOWER

SUNFLOWER

A small patch of cultivated sunflowers will produce a great quantity of the very best poultry feed for winter. Drill in rows, cut with a corn harvester, dry thoroughly and let the "owls do the threshing. If you can't spare land for cultivating plant them in waste corners. We sell sunflowers for feeding purposes, and prices will be found with bird supplies on page 126; seed so offered is not for germination.

MAMMOTH RUSSIAN.—Extremely large sunflower. Large pkt. 5c, 1b. 25c, 3 lbs. 65c, postpaid. By frt. or exp., not prepaid, 10 lbs. \$1.40, bu. (25 lbs.) \$3.00.

WHITE BEAUTY.—Equal in size to Mammoth Russian. Pkt. 5c, 1b. 35c, 3 lbs. \$1.00, postpaid. By frt. or exp., not prepaid, 10 lbs. \$1.40, bu. (25 lbs.) \$3.00.

BROOM CORN

CALIFORNIA GOLDEN.—Carefully selected and improved so that the brush is straight and long. Of fine quality, light green color, turning to light yellow when allowed to become too ripe. Per lb. 25c, 3 lbs. 65c, postpaid. Send for red ink price list for value on quantity.

EVERGREEN.—Largely grown in the western states. The brush is noted for fine quality, good length, and handsome appearance. Lb. 25c, 3 lbs. 65c, postpaid. Send for red ink price list for value on quantity.

DWARF.—Popular in some sections, matures late. Lb. 25c, 3 lbs. 65c, postpaid. Send for red ink price list for value on quantity.

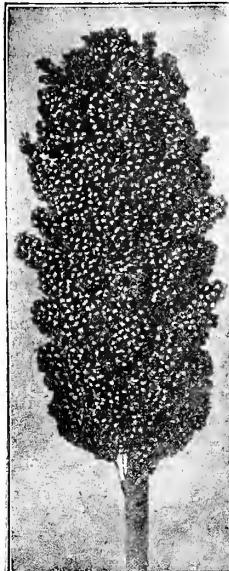
SEEDS FOR SUMMER SOWING

A thirty-two-page booklet telling how to grow Sweet Clover, Sudan Grass, Cow Peas, Sand Vetch, Alfalfa, Amber Cane and Dwarf Essex Rape. Also chapters on Millet, Buckwheat and other seeds for summer planting. Free on request.

FORAGE AND FODDER PLANTS

OF SPECIAL VALUE TO LIVE STOCK RAISERS

Every plant that will conserve the hay raised on a farm is of material advantage to the farmer. In this department will be found a number of items which, if properly used, will solve the problem of feed for the live stock when hay and pasture are short from any cause. Amber Cane or Kaffir Corn for fodder; Rape or Kale for pasturage; Vetch or Field Peas for hay can be used by any farmer in the corn belt with profit. All may be siloed with corn to advantage.



HEAD OF FETERITA

Dairy and stock farmers say that Cane is the most valuable fodder plant in existence for their use. It is of the very best quality, being sweet, nutritious and greedily eaten by cattle, horses and hogs. Grown successfully in any part of the country, from Canada to Texas, and from the Atlantic to the Pacific. It is one of the best plants to withstand drouth and unfavorable weather and is therefore a comparatively sure crop. It is wonderfully productive, the Ames Agricultural College harvesting 29 tons per acre on August 27th from a plot seeded May 21st. It is usually put in during June, sowing 100 pounds per acre broadcast, or 60 to 75 pounds per acre is sown with a wheat drill. Cut in September or just before frost with a mower and cure like hay, or with a binder and stand the bundles up. We consider the Black or Red Seeded Amber the most desirable. If wanted for sorghum, we recommend the Kenney's, which is purer. It is difficult to secure a strictly pure lot on the general markets, but this cheaper grade is desirable for fodder purposes. Price is subject to market changes but it usually advances later in the season. Per lb. 20c, 3 lbs. 50c, postpaid. See red ink price list for current values.

AMBER CANE FOR FODDER

KENNEY'S EARLY AMBER CANE

An improved variety grown on our own farms to keep it pure. The stock seed has been saved from stalks tested for sugar content. This process has been followed for a number of seasons, until we now have, without doubt, the best sorghum cane in the country, and it will make the very finest grades of beautiful amber syrup of delicious flavor. In addition to the sorghum, a crop of seed worth \$25 or \$30 can be grown at the same time. This last season our crop of Kenney's Cane equaled 8 tons of stripped cane per acre, producing 149 gallons of fine sorghum, and in addition our crop of seed averaged a ton to the acre. Use only 5 lbs. seed per acre. Per lb. 35c; 3 lbs. \$1.00, postpaid. By frt. or exp., not prepaid, 10 lbs. \$1.50; 25 lbs. \$3.00. See red ink price list.

EARLY ORANGE CANE

Differs from the amber variety both in color of stalk and of seed head. It is a little later to mature than the Early Amber variety and is popular in Missouri, Kansas and Oklahoma. We prefer our Kenney's Amber for sorghum making, although the Orange is good as ordinary stocks. Is a favorite with some customers as a fodder cane and is offered in deference to their preference. Per lb. 20c, 3 lbs. 50c, postpaid. See red ink price list for current values.

KENNEY'S AMBER CANE

SUDAN GRASS

For directions, description and price see inside front cover of this catalogue.

FETERITA

Similar to Milo Maize and Kaffir Corn in general habit. It matures earlier than either however, and the grains are somewhat larger and softer. It is also said to be more prolific, yielding thirty to fifty bushels of grain per acre, and suitable for feeding most any kind of live stock. It is especially recommended in the semi-arid regions of the West, or upon poor soil where ordinary Indian Corn will not produce a profitable crop. The sorghums should be planted in the North about June 1st. They do not withstand the cold and dampness of early spring like Indian Corn, but are strictly hot weather plants. In good weather, however, they grow quite rapidly and can generally be depended upon to ripen a crop as far north as Central Iowa. Pkt. 5c; lb. 20c; 3 lbs. 50c, postpaid. See red ink price list for current values.

KAFFIR CORN

Grows five to six feet high; straight, upright growth. The stalk bears numerous wide leaves; keeps brittle and juicy, making excellent fodder either green or dried. Seed crop is heavy, yielding 30 bushels per acre. There is no failure about it; can go without rain without any loss in yield. The grain is extremely valuable for feeding poultry.

Cultivated same as common corn, requiring 5 lbs. of seed per acre. For fodder sow 35 to 50 lbs. either broadcast or in drills. Pkt. 5c; lb. 20c; 3 lbs. 50c, postpaid. See red ink price list for current prices.

MILO MAIZE

Very similar in manner of growth to Kaffir Corn, but is preferred by many growers who claim that it produces more grain per acre and better quality of forage than any of the non-saccharine sorghums.

It is grown and handled in same manner as Amber Cane or Kaffir for hay and fodder and will make splendid ensilage if cut up with corn. Pkt. 5c; lb. 20c; 3 lbs. 50c, postpaid. See red ink price list.

PENCILARIA

Particularly a dry, hot weather plant. An improvement of the Pencilaria Spicata (Pearl Millet), and much better adapted to the North. Seeds very small, and when it first comes up looks like grass, but very soon resembles corn, growing rapidly and having broad, succulent leaves. It stools out wonderfully, customers reporting as high as 75 stalks grown from one seed. Sow in May or June in drills 24 to 36 in. apart, using 2 lbs. seed per acre, or broadcast, 15 lbs. per acre. Pkt. 5c; lb. 35c; 3 lbs. \$1.00, postpaid.

AUSTRALIAN SALT BUSH

A valuable plant for soils containing alkali and for all semi-arid or dry regions. It is not hardy in the North. When once started it will make a strong growth during hottest and driest weather. Spreading habit, branching freely, making thick mat of stems and foliage 18 inches over entire surface of the soil. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid; 1 lbs. or more by express, not prepaid, at \$1.00 per lb.



KAFFIR CORN



TEOSINTE

TEOSINTE

Very prolific, heavy yielding fodder plant largely grown in some parts of the country. Resembles corn, but leaves are much longer and broader and stalks contain a sweet sap; 35 stalks have been grown from one seed, attaining a height of 11 ft. and thickly covered with leaves. Horses and cattle eat it as freely as young sugar corn. Plant as soon as ground is warm at usual corn planting time, in hills 3 to 4 ft. apart each way, two seeds to a hill. It has yielded 50 tons of fodder to the acre. Pkt. 5c; oz. 10c; ¼ lb. 50c; 1 lb. (for one acre) \$1.50, postpaid.

KAFFIR CORN

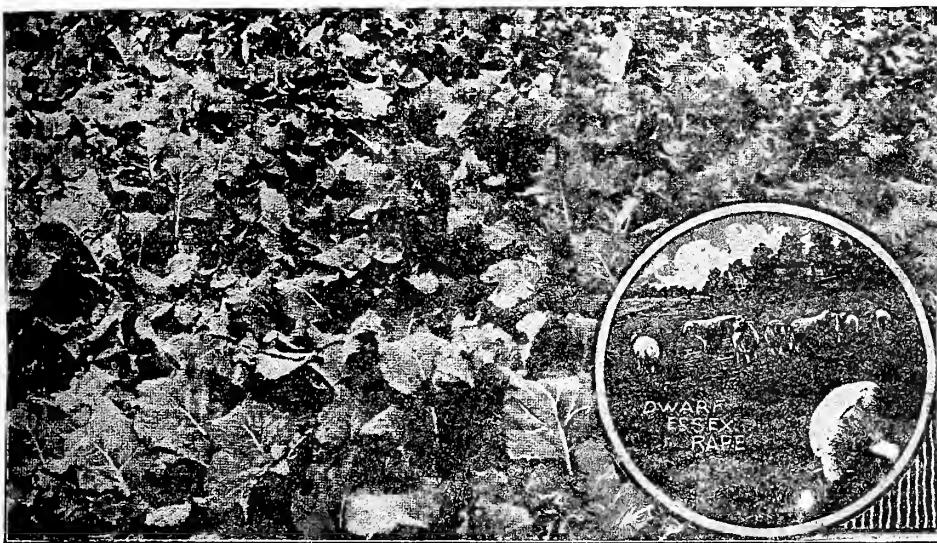
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KAFFIR CORN



COW PEAS

There is as much difference in the grading of cow peas as in clover, and we handle only the choicest; you will not be able to get better. Circular on Cow Peas free.

BRABHAM.—A new variety that is practically a small Whippoorwill. Markings of the seeds are the same. It is earlier than the Whippoorwill, and extremely prolific. Grown extensively in Kentucky and Tennessee and is claimed to be the most productive variety. Per pkt. 5c, lb. 25c. 3 lbs. 60c, postpaid. By freight or express, not prepaid, 10 lbs. \$1.00. See red ink price list.

NEW ERA.—Make splendid hay; use 30 lbs. seed per acre and plant like garden beans; particularly recommended for planting after grain harvest and plowing under in fall. Get the grain off the ground early and plow and plant to New Era cow peas; put the ground in fine shape for next year's crop. Mature in 60 days and have done well as far north as Minnesota. Pkt. 5c, lb. 25c, 3 lbs. 65c, postpaid. By frt. 15 lbs. \$1.00. See red ink price list for current values.

WHIP-POOR-WILL.—Highly valued for fodder and reclaiming worn out land; of special merit as a fertilizer. Whip-Poor-Will is a popular sort and yields a good crop of both fodder and peas. Ground peas make the best cattle fatteners. Pkt. 5c, lb. 25c, 3 lbs. 65c. By frt. 10 lbs. \$1.00. See red ink price list for current prices.

SOJA OR SOY BEANS

IMPROVED YELLOW.—Splendid soiling and hay crop, preferred by many to cow peas as they stand up better and are easier to harvest. Of great value from the fact that they fertilize the soil like clover. Ground beans are equal to linsced oil meal in feeding value; as hay for silo it is equal to or better than clover. Will mature in all parts of the corn belt and in the Middle States has been grown over 4 feet high, heavily podded with seed, producing 10 tons of feed per acre. Pkt. 5c, lb. 30c, 3 lbs. 60c, postpaid, 10 lbs. \$1.00. See red ink price list for current values.

SAND OR WINTER VETCH

A forage plant of high value, highly recommended by the U. S. Dept. of Agriculture. Produces good crops on poor, sandy soil, but more vigorous on good land. Grows 4 to 5 ft. high. Recommended for seeding with fall rye for winter and spring pasturage; hardy throughout United States. Stays green all winter. Earliest for cutting and a full crop may be taken off before planting the spring crops. Sow 30 lbs. per acre in the spring or fall. Pkt. 5c, lb. 40c, 3 lbs. \$1.00, postpaid. By freight or express, not prepaid, 10 lbs. \$3.00. See red ink price list for current values.



SOJA OR SOY BEANS



FIELD OF COW PEAS

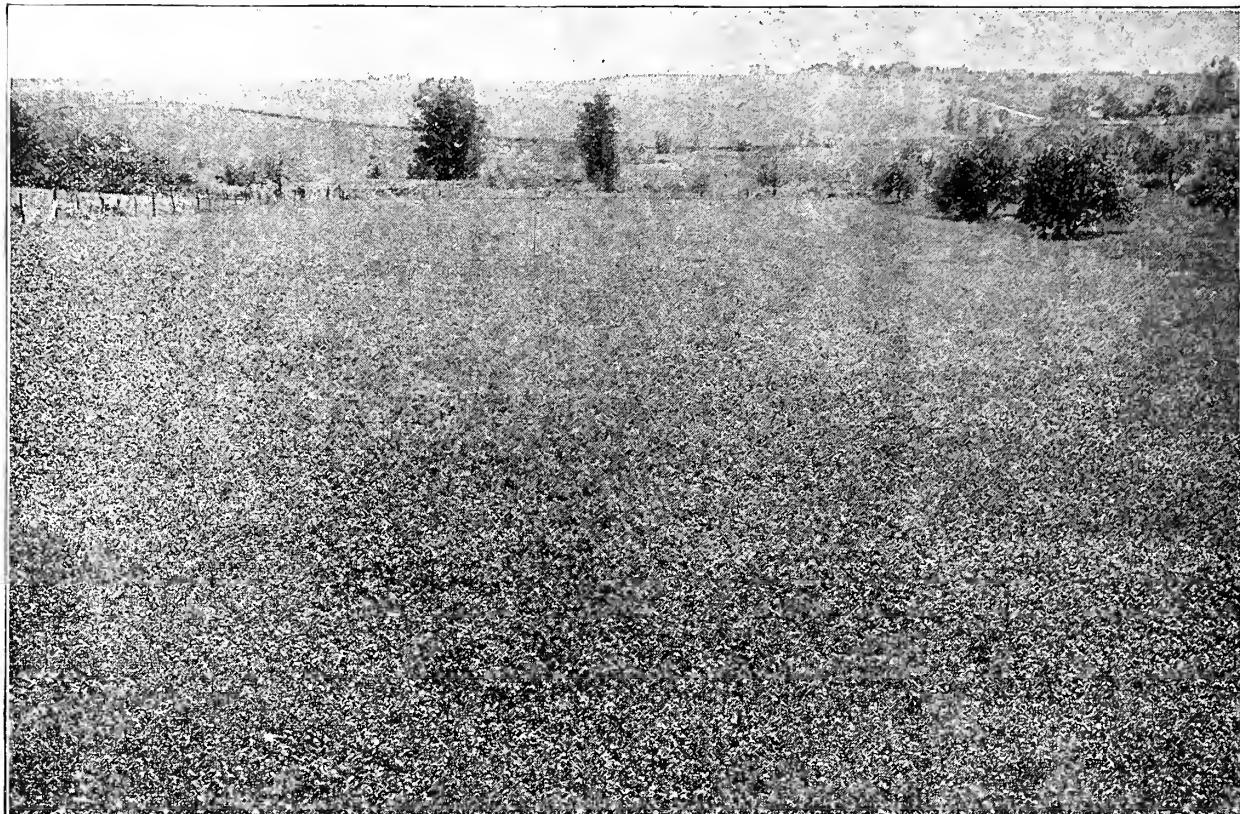
DWARF ESSEX RAPE

Most popular and profitable of all annual forage plants. Easily grown anywhere and stands unsurpassed as pasture for hogs, cattle or sheep. They eat it greedily and seem to prefer it to any other pasture during summer and till late fall or early winter. It can be sown early in the season in small grain to provide pasture after harvest, or sow on the stubble, but it is more generally sown in June, July or August with corn or potatoes or on well prepared land alone for summer and fall pasture. Extremely cheap and very prolific, having yielded 20 tons per acre. At the Iowa Agricultural Station at Ames, 60 bushels of oats and 18 tons of rape were grown on one acre, the oats and rape being sown together early in spring. The rape interfered but very slightly in oats harvest. Sow in drills, two or three pounds per acre, and cultivate. Sow broadcast four or five pounds per acre. A Nebraska farmer sowed only 3 lbs. per acre on a four and one-half acre

turned 80 head of hogs and 40 pigs into the field and pastured there until October. It grew so rapidly that at no time could he tell where they had been 20 feet away from the gate. We hope to have true English grown seed for the coming season but we have now a fine stock of the ordinary rape which is the best obtainable at the time this catalogue is printed. Lb. 25c, 3 lbs. 65c, postpaid. By freight or express, not prepaid, 5 lbs. \$1.00, 10 lbs. \$1.80. See red ink price list for offerings and current values.

WHITE CANADA FIELD PEAS

For northern states no crop is of greater value than field peas, being very rich in the elements that improve the muscle, bone and nervous system. Sow as early as ground can be worked, using 60 lbs. (1 bu.) of peas and two bushels oats per acre. Cut when the oats are in milk and cure for hay. This is the quickest possible way to produce a hay crop and they are especially valuable to the farmer who has not enough meadow land. Pkt. 5c, lb. 25c, 3 lbs. 65c. By freight, 10 lbs. \$1.00. See red ink price list for current values.



EXTRA QUALITY IOWA GROWN CLOVER SEED

Clover is the most useful of all plants to the farmer of the middle west. We have come to look upon it as absolutely essential if we are to retain the fertility of the soil and secure profitable crops of grain from the fields. The ordinary rotation is small grain, clover and corn; covering four years from grain to grain and sowing the clover with the small grain. Some farmers eliminate one year, turning the clover under in the fall of its first year, but it is generally preferred to harvest the hay the second

year and turn it under the next spring before corn planting. It is generally seeded with timothy because mixed hay or pasture is preferred to clover alone. Clover and timothy sown in early April will make a crop of hay by mid-July.

This hay crop will be as valuable as oats, which is the grain generally grown as a nurse crop while the grass will stand the summer heat and drouth much better than will small plants first exposed when the grain is cut.

MEDIUM OR COMMON RED CLOVER

Iowa Shield" Brand Clovers our Famous Specialties,

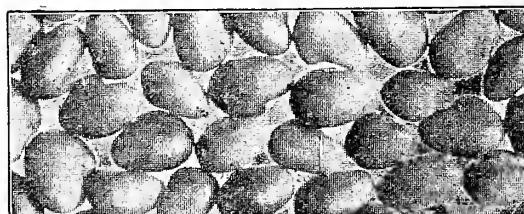
We sell more clover seed direct to farmers than any seed firm in the West, and it is all sold because those farmers get better quality of seed,—brighter, cleaner, more plump and vital—than they can secure elsewhere. The reason is that we take special care to have everything first class and protect our customers by using the microscope in both buying and selling.

Our clover seed has become widely known for its purity, strong vitality, hardiness, vigorous and healthy growth, and branching qualities, so that now we receive many or-

ders from the most distant parts of the United States. Well posted farmers appreciate the difference between it and ordinary stock. This is the most important of all clovers and the standard everywhere for hay and pasture and our "Iowa Shield" grade is the plumpest, cleanest, purest, fanciest grade; tested and of high vitality. Farmers usually sow 15 to 20 pounds of clover seed to the acre when sown alone, but this seed is so choice that 6 or 7 pounds is really sufficient if conditions are favorable, but we recommend sowing 10 pounds so as to be sure of a perfect stand. About 5 pounds, if sown with timothy. Per pound, 50c, 3 pounds \$1.40, postpaid. See red ink price list for quantity price.

MAMMOTH RED CLOVER

This is also called Sapling or Pea Vine Clover. It greatly resembles the Medium Red but grows coarser and more vigorous. It is the best clover for pasturage as it will produce an enormous yield and is of the highest feeding quality but not as desirable for hay. Specially desirable for hog pasture. You can enrich your soil more cheaply by sowing Mammoth Clover and plowing it under than in any other way. Per lb. 60c, 3 lbs. \$1.50, postpaid. Ask for price in quantity.



IOWA SHIELD BRAND CLOVER

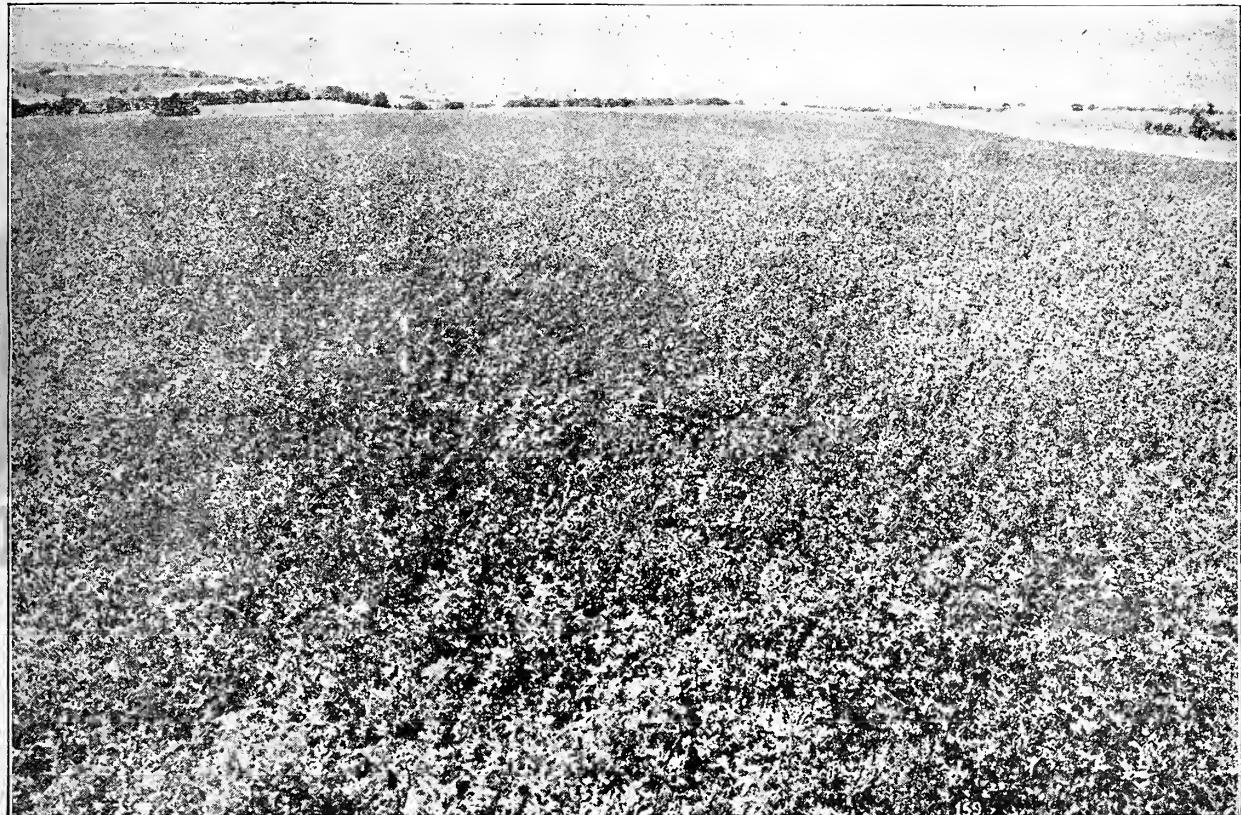
Notice the plump, perfect shaped grain and freedom from weeds. You cannot secure better seed, no matter what you pay for it, and it costs but little more. It always pays to

Market changes constantly and this part of the catalogue goes to press in November. It is impossible to name price at which clover seed will sell in spring. We therefore quote price in this book only in small lots.



ORDINARY CLOVER

As it comes from the huller, full of weed seeds, trash and sand. If you buy low grade seed you not only risk filling your land with weeds, but you are also paying for each pound of weed seed and trash.



HARDY UPLAND AMERICAN ALFALFA SEED

Send for free booklet "How to Grow and Use Alfalfa."

No crop is so valuable for permanent meadow as Alfalfa. In ordinary seasons three crops of hay are cut in Iowa and the North generally, while many seasons produce four cuttings. It stands the dry, hot months of July and August in the corn belt and continues green and growing at this time when other grasses are dormant. It is grown everywhere in the United States now, and it is a question of soil rather than climate which determines success or failure with Alfalfa. We procure our American Alfalfa seed from the states of Kansas, Nebraska and South Dakota so that they are suitable for any section of the country. Actual tests of seed from all over the United States show that the stocks produced in the semi-arid districts of the states named give the best results and are hardier than stocks grown farther south or by irrigation in the West. It is because of the results of actual plantings that we offer this seed, and when we have re-cleaned it, taken out dirt, trash, immature seeds and weeds, we have the best possible stocks

THE QUALITY OF SEED

There is only a fair crop of alfalfa seed this year. The price of hay is so high and the need of western farmers for forage so great that instead of growing seed from the second crop as is usual most of it was cut for hay and only a small proportion of the acreage given to seed production. The quality of the seed is good and the price is not excessive. Beware of cheap Alfalfa seed. A great deal of seed is offered just as it comes from the hullers, full of dead seed, sand, dirt and trash so that you pay more than a fair price for the actual seed you secure. Better have five pounds of clean, plump and vital seed where every plant will be strong and vigorous, than to have ten pounds some of which is only sand or dirt and a great part of which will produce weak, spindly plants without strength or vitality. It pays to buy the best grass seeds

IOWA SHIELD ALFALFA SEED

No seed which we handle is given closer scrutiny than Alfalfa. We buy only the best offered; using the microscope and analyzing for purity. Our Iowa Shield Brand grade is the brightest, plumpest and cleanest we can find; and even this is not good enough for the Shield grade until we have re-cleaned it through our perfected machinery and taken out everything in the way of sand, broken grains and dirt. We invite the closest inspection of our Iowa Shield Brand Alfalfa from particular farmers and we will gladly mail you a sample on request for microscopic inspection and analysis. Per lb. 40c, 3 lbs. \$1.00, postpaid. See red ink list for price.

GRIMM'S ALFALFA

In response to demand we are offering what we believe to be true Dakota grown stock of this variety. We will use the greatest care to provide our customers with genuine Grimm's Alfalfa. Per lb. 75c, 3 lbs. \$2.00, postpaid. See red ink price list

OUR FANCY GRADE ALFALFA

Will be found of excellent purity, free from weeds, and grading lower than the Iowa Shield Brand because of color rather than actual value. See red ink list.

IOWA STANDARD ALFALFA

The Iowa Standard is a good grade of Alfalfa, fully up to standard of the Iowa pure seed law, and is in fact fully equal to most of the Alfalfa seed offered as "choice" or "prime" by other dealers. Write for price.

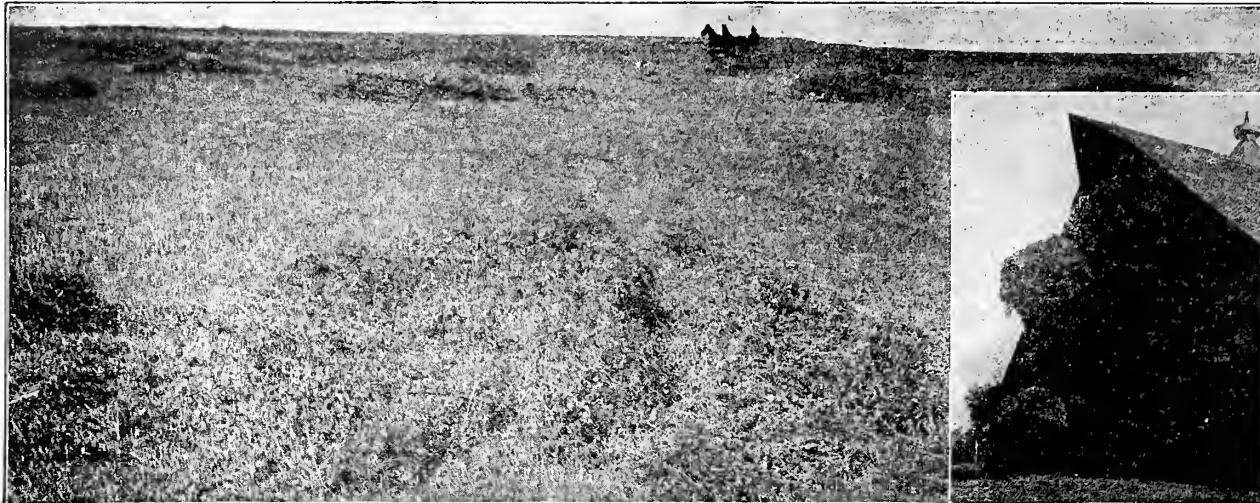
TURKESTAN ALFALFA

We import the seed of this variety, but are just as careful in our buying as we are in the purchase of American seed. There is a demand for this sort in the semi-arid regions of the west and northwest as it is said to be hardier than our native sorts. Lb. 30c, 3 lbs. 75c, postpaid.



Iowa Shield Brand Alfalfa—Perfect, plump grains, free from weeds,

Alfalfa seed as frequently sold. Full of weeds and dangerous.



HULLED AND SCARIFIED SWEET CLOVER SEED

Ask for Circular on Sweet Clover and Price Per Bushel.

Sweet Clover has become a standard crop throughout the country. It is grown in every state in the Union.

It is now being used in spring sowing exactly as common red clover. Some farmers seed it with small grain for nurse crop, while others are sowing it alone in early spring and securing both pasture and hay the first year. The handling of this crop has passed the experimental stage. We have ceased to handle seed in the hull, as we now have machines to hull and clean it, so that we offer it in as high quality and purity as any clover. This is a great step forward, and our customers will appreciate the difference if they compare crops from our stock with that grown from ordinary seed.

SCARIFYING THE SEED.—One great difficulty with sweet clover in the past was slow germination. In the natural condition the seed has a very hard hull and the germ does not start quickly. Sometimes spring sown seed would not sprout until fall, and at best only about 70 per cent germination might be expected. Prof. H. D. Hughes, of the Iowa Agricultural College, at Ames, Iowa, has perfected a machine to scarify the seed, and kindly permitted us to install one in our warehouse so that we can now supply our customers with seed that will show a high percentage of germination. The process of scarifying results in rubbing the seed against sandpaper, so that the hull is very thin, while in other respects the seed retains its normal condition, except the microscopic scratches in the seed-coat show where the sandpaper has chipped it. Of course it costs a little more to add the extra cost of labor, and the loss by shrinkage is considerable, but you get value received. A bushel of scarified seed will give you 25 per cent greater germination than untreated seed, and is really worth that much more to the planter. Use 12 to 15 lbs. of scarified seed per acre. This gives a heavy stand resulting in hay of fine texture and quality.

Sweet Clover belongs to the family of leguminous plants, and adds greatly to the fertility of the soil on which it has been grown. The same bacteria which live on its roots thrive on the roots of alfalfa and therefore it is claimed that alfalfa will do much better on land where Sweet Clover has previously been grown. It roots very deeply, therefore opens up the soil so as to adapt it for all other kinds of crops, making it not only more rich in nitrogen, but allowing the roots of other plants to penetrate more deeply.

Sweet Clover will grow and make a crop on the poorest soil and worst locations of any of the grasses. It thrives on land where there is no plant food apparently. It will be

found growing wild in railroad cuts, about the mouths of abandoned coal mines, or steep hillsides where stone crops out—in fact it will grow under more adverse conditions than any of the coarser grasses, and every place it grows it enriches the soil and prepares it to produce the more economic grains and grasses. It is used by thousands of farmers as a forerunner for alfalfa. You will not require inoculation or any preparation of any kind if you sow alfalfa on land that has grown sweet clover.

Many times a farmer wants to start a field of sweet clover in the fall. This is readily done, and by this method you get it out of the way of spring work. Sow in late October on thoroughly prepared ground. The seed will lay in the ground all winter and sprout in early spring. We believe you get quicker growth and larger crops with fall sown seed, although since the scarifying process has been perfected much quicker growth is now secured with spring sown seed.

If you sow scarified seed with small grain in early spring you can reasonably expect to cut a crop of hay in October. If preferred the crop can be turned under in fall plowing and by this method you can build up the soil without using the clover rotation if you so desire. Sweet clover can be sown among the corn at last cultivation and turned under the following spring, or it may be used for pasture or hay during the summer. It has a permanent place in agriculture and we expect to see it increase in popularity. This year there is a splendid crop of seed throughout the country. For the first time production has reached a point equal to demand and we expect to see it cheaper than the ordinary varieties of clover this season. At these values you can afford to use it freely.

WHITE BIENNIAL.—(*Melilotus Alba*, or *Bokhara*).—The white-flowered variety frequently seen growing wild along the roadsides. In growing it for hay, it is cut when about 18 inches to 2 feet high and before it begins to branch heavily. If the mower bar is set about 6 inches above the ground it will cut above the first branches and the clover produces a second crop. If cut too close to the ground the plants are not likely to survive the first cutting. Sow very early in spring or fall, and without a nurse crop. Germinates more quickly and freely if sown on a well prepared seed bed. Per lb. 50c, 3 lbs. \$1.40.

YELLOW BIENNIAL.—(*Melilotus Officinalis*).—Very similar to the commoner white-flowered (*Melilotus Alba*), but blooms a little earlier. Not so rank and coarse and for this reason is claimed to be superior. Per lb. 40c, 3 lbs. \$1.00.

STANDARD BRAND INOCULATING BACTERIA

For Alfalfa, Sweet Clover, Common Clover, Soy Beans, Cow Peas, Garden Peas and Beans, Sweet Peas and all Legumes.

Price: 1 acre 50c, 2 acres 95c, 4 acres \$1.50, 6 acres \$2.00.

Add 5c per acre for postage.

KINDS OF BACTERIA

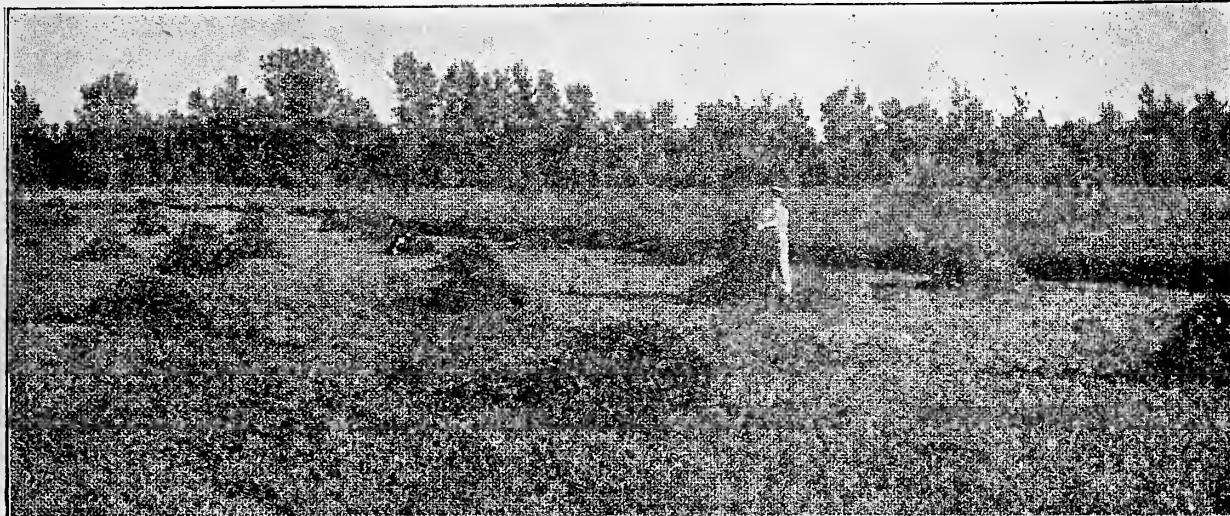
There are many kinds of legume bacteria, differing from each other in shape, size and general characteristics. There is a separate bacteria for each of the legumes. Alfalfa has its own bacteria. There is a separate and distinct germ for the different kinds of beans and peas, as well as a separate germ for each of the clovers, red clover, alsike clover, crimson clover, etc., each having its own germ. Sweet clover, however, has practically the same germ as alfalfa. Mammoth clover being only a development of red clover, has the same germ as the red. With these exceptions each legume has a different germ. Each legume, therefore, must have its own kind of bacteria attach to its root and without nodules no nitrogen can be taken from the air by the plant.

HOW TO INOCULATE THE SEED

Each bottle of bacteria, as it reaches the customer, is only partially filled with bacteria. When ready to inoculate the seed, remove the rubber cork, fill the bottle about two-thirds full of water and stir and shake thoroughly. Spread the seed on a clean floor. Pour the diluted bacteria out of the bottle into a pan, adding enough more water to nicely moisten all the seed. This will require at least a pint for each bushel of seed. Sprinkle the seed either by hand or with a sprinkling can, stirring the seed well with the hands so that each seed is moistened. Dry in a cool, airy place, but keep them out of the sunshine while drying.

SOWING THE TREATED SEED

Inoculated seed should be sown soon after they are sufficiently dry to handle. If slightly moist all the better. It is a good plan to treat the seed in the evening and sow early the next morning. If placed in a dark place, however, they can be kept for many days, but they should be slightly moistened again, with clear water, just before sowing.



STRICTLY RECLEANED ALSIKE CLOVER SEED

Alsike clover is a perennial variety and because it does not die out after seeding as does the common red variety, it is preferred for permanent pastures and meadows. It is harder than common clover and will winter over the severest seasons. It thrives on wet, heavy soils and in mucky ground better than any other clover. It grows somewhat smaller than ordinary clover and many farmers prefer it for hay on that account. It grows 18 to 24 inches high and has round pink or flesh colored blossoms. The seed is small like timothy seed and 7 lbs. lone or 3 lbs. with timothy, are sufficient for an acre. You can seed with Alsike at a lower cost per acre than any other clover.

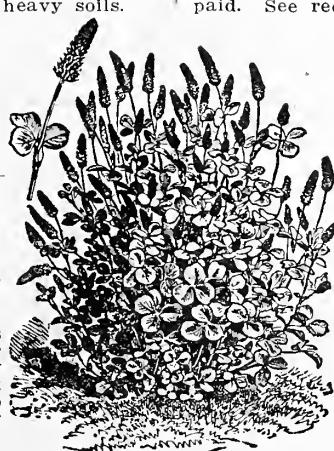
Alsike clover seed is nearly always produced in mixed meadows. For this reason there is no other clover seed which varies so greatly in quality and price. Don't buy cheap Alsike and don't buy any that has not been thoroughly cleaned. Seed as usually threshed will contain sorrel, dock, timothy, white clover, dirt and trash and it requires expert service to get it really clean enough to use with safety. Well matured clean Alsike seed is blue-green in color, without yellow, and if samples show red they contain immature seed which is of doubtful vitality. It may be taken for guidance that the bluer and brighter the seed the better. Because of its distinctive size and color you can easily determine for yourself the quality. Cleaned seed costs more than if the impurities are not taken out, but you cannot afford to sow seed on a price basis alone.

We do not consider Alsike equal to either the Sweet clover or red clover for building up soil. It does not afford the quantity of nitrogen which the larger kinds carry to the soil. It has however great value as a soil builder, and when the permanent pasture or meadow is plowed after a number of years standing, the land will be much stronger if a good proportion of Alsike has been included. Alsike is second only to the common red clover in general service to agriculture as practiced in the middle west.

In brief the advantages of Alsike are its hardiness, its perennial growth, its value in permanent meadows or pastures, and its ability to produce on wet or heavy soils.

WHITE DUTCH CLOVER

The low growing, creeping, hardy white flowered sort so common throughout the country. It spreads rapidly as it is almost certain to reseed itself each year. Its principal use is in permanent pastures but large quantities of seed are used each year in seeding lawns and it is a favorite grass for this purpose. It is strong and tenacious and will hold better on hillsides and terraces than most grasses. The seed is very small, bright yellow in color, and 5 lbs. will sow an acre. Owing to its creeping habit it is difficult to make a seed crop from white clover and price is generally higher per pound than other clovers. We buy the best seed we can find. The common impurities are cress, dock and sorrel and as they resemble white clover seed in color close scrutiny is necessary. Values vary greatly. The poorer grades can be bought at a very low price. Don't buy cheap white clover seed. It is also offered among the lawn grass seeds on page 61. Per lb. 75c; 3 lbs. for \$2.25, postpaid. See red ink price list for quantity values.



CRIMSON CLOVER

CRIMSON CLOVER

Also called Giant Incarnate. This is an annual clover and it will not survive the winters in the north. In the south it is sown in the fall and winters over, making a grass crop in early spring. It has value, however, and if you want to take a year from your rotation, sow Crimson clover with small grain in spring, turning it under just before frost in fall. You can use it to advantage where winter wheat or rye are a part of the rotation by seeding Crimson clover on the growing grain in April and covering in with a disc. It will make a good growth after the grain is harvested and if the land is plowed in October the soil will be in fine condition for a corn crop the following spring. The illustration shows manner of growth and peculiar shape of the blossom. It is larger in growth than the common red clover. The seeds are round in shape and colored like red clover seed. As its principal value is soil building we recommend heavy seeding and would use 15 to 20 lbs. per acre. Per lb. 50c; 3 lbs. \$1.40, postpaid. See red ink price list for quantity values.



CHOICE IOWA GROWN TESTED TIMOTHY SEED

Timothy is now the most popular and widely distributed of grasses. Not only is it grown throughout the United States but it thrives in the temperate zones throughout the world. It is a hardy perennial and quite tenacious so that it continues to grow in spite of summer heat or winter cold. It is the foundation grass for meadows and pastures and is popular because it fits in with almost any rotation system. It is generally sown with clover in spring, among oats, wheat or spring rye. Many farmers who grow winter wheat or rye sow the timothy in the fall, adding the clover in the spring by using a disc harrow on the growing wheat or rye. Sometimes it is sown among corn at last cultivation and frequently it is planted on small grain stubble as soon after harvest as possible. In fact the planting season for timothy extends from March to October so that the farmer can count upon it to fit in almost any way. The most popular method is to sow in the clover in early spring using small grain as a nurse crop. In our opinion the grain crop might be omitted with better results but the general practice is otherwise. If a nurse crop is used we suggest an early small oat such as Iowa 103 or Iowa 105 as first choice.

THE SEEDSMEN'S SERVICE

The measure of usefulness of the seed house in the handling of grass seeds is the ability to take the crops as they come from the farms, re-clean the stocks and send them out to planters free from weed seeds, dirt, trash and impurities and in fit condition to produce good crops. The seedsman who simply buys and sells performs no function that is worthy of reward. All the best houses in the trade are equipped to clean and improve the quality of stocks purchased on the open market. Because of these conditions the farmers patronize the seed houses. Most planters realize that they can procure better seed from the seedsman than from the grower. Every year a great many of our patrons sell us their crops of clover and grass seeds and buy fresh supplies from us because they find it profitable.

For the service rendered in re-cleaning and grading grass seeds the pay is small. Ten per cent on an average will measure the margin between buying and selling prices, and this is a very low cost when it covers all the many details necessary in the work performed. The cost of this service and the price paid for it by no means measure the value to the planter. It is one of the great factors in increasing farm production.

No seed firm in this country takes greater pains and care in the purchase and sale of grass seeds handled than do we, and none have experts of greater knowledge or better judgment. The men in charge of buying, cleaning and grading have all had more than twenty years' experience in our own establishment. We also have the latest and best cleaning machinery and thus equipped we are in position to furnish and do furnish the very highest possible quality in this line. No expense is spared either in purchase price or handling to keep up the quality; and of course it costs a little more, but when you see a field of grass, free from weeds, of strong and vigorous growth, you will realize that quality is and should be of greater concern than price.

Next is smooth wheat like Marquis, although rye is generally just as good and profitable. Barley makes a fair nurse crop. Your choice of small grain should be made with reference to the length of the soil.

We make a specialty of supplying the choicest timothy direct to farmers. We carefully clean all timothy seed we offer. Generally the seed as it comes from the machines contain dirt, trash and weed seeds. Don't sow uncleansed seed. It is difficult at best to keep weeds off the farm, and impossible to do so if you sow grass seeds without re-cleaning. Not only are you making trouble for yourself by sowing poor seed but you will pay for three or four pounds of worthless trash in every bushel you buy. We are located in the best section of the country for growing timothy seed and more of it is grown in Iowa than in any part of the world.

There is not more than one field of timothy in a hundred which produces our Iowa Shield grade. It is very bright in color, but little hulled, almost absolutely free from impurities and of high vitality, and therefore requires only about 8 lbs. of seed per acre. Per lb. 25c, 3 lbs. 60c, postpaid. Ask for price in quantity.

CLEAN SEEDS

Few persons can detect impurities in grass seeds unless seed is very foul. Often our friends have watched our re-cleaning machines and wondered where the impurities came from, as the seed seemed without dirt or trash before cleaning. Grass seeds as they come from the thresher contain large quantities of impurities. For every pound of dirt in clover seed you pay 25 to 30 cents. Shrinkage usually runs from 3 to 6 lbs. per bushel. This makes quite a difference in real value and our seed is really worth \$1.00 to \$2.00 per bushel more than seed as commonly sold. No one should buy seeds from any source unless they have been thoroughly cleaned. We will be pleased to submit samples for inspection, or you can have seeds from us analyzed by any authority in the country and abide by the report.

OUR IOWA SHIELD BRAND GRASS SEEDS

Now have a national reputation and are shipped to every part of the country where grasses grow. Iowa Shield Brand of Clover, Timothy and other seeds is strictly new crop of exceptional purity and has been thoroughly re-cleaned on the best electric seed cleaning apparatus made. It is a plump, nice seed, carefully tested and proven of strong germinating qualities. These we have thoroughly re-cleaned, tested and carefully inspected under the microscope for foul weeds. To distinguish it from ordinary grasses, we call our best grade "Iowa Shield Brand." It is shipped to customers in braided bags. It is sure to produce vigorous, healthy plants and an exceptionally good crop if the weather and soil conditions are not unfavorable. It pays to sow the best seeds obtainable and our Iowa Shield Brand is, we are sure, superior to any other.

Our Iowa Standard grade clover, timothy and other seeds is really a choice grade, fully up to requirements of the Iowa Pure Seed Law in purity and vitality, and is, we believe, as good seed as you could obtain from most dealers.





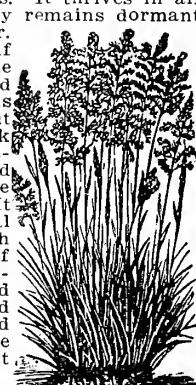
RECLEANED SEED FOR PERMANENT PASTURES

The grasses on this page should have a wider use than are at present given them. Each has its particular place where its value is greater than that of the ordinary timothy and clover meadows and pastures as generally grown in the middle west. They should appeal particularly to the live stock grower because for young animals a mixed pasture is much superior to one where clover is in heavy proportion.

KENTUCKY BLUE GRASS

Kentucky Blue Grass is without doubt the most popular of what are known as the light grasses. It thrives in all parts of the United States, but generally remains dormant during extremes of summer and winter. Will continue to grow luxuriantly if plenty of rainfall is available during the summer months, and stays green and growing in winter until the ground is actually frozen. As a pasture grass it affords more nourishment for live stock than any other and the blue grass pastures of Kentucky are famous the world over for the fine animals which are reared to perfection on this grass. It thrives as well in Iowa and the central west as it does in the state from which it takes its name. Large quantities of seed are now produced in Iowa and Missouri. It spreads from the roots and where it once gets a start will crowd out other grasses. It is not recommended as a meadow grass because the tonnage is small, but as a pasture grass it is not surpassed, if equalled.

FANCY CLEANED.—The legal weight of Blue Grass is 14 lbs. per bushel. Improved cleaning is now possible and the ordinary grade now offered will actually weigh 17 to 19 lbs. per measured bushel. To avoid confusion we offer by the pound. By mail postpaid per lb. 40c; 3 lbs. \$1.00. See red ink price list for quantity values.



BLUE GRASS

"IOWA SHIELD" KENTUCKY BLUE GRASS.—We pride ourselves on this extra choice grade, which is of such unusual purity and high germination that it is of special value for lawns or for mixing with heavier grasses when seeding for pastures. Lb. 50c, 3 lbs. \$1.40, postpaid. See red ink price list for quantity values.

ORCHARD GRASS

Second only to blue grass as a pasture grass and superior to it for meadow purposes because it yields much greater tonnage per acre. It is equally hardy as blue grass, becoming green and available very early in spring and continuing fit until frozen. Recovers from cropping very rapidly, and in fact seems to grow more luxuriantly the more it is cropped. It does not spread so rapidly as blue grass, grows in bunches, and hence best results are obtained if it is seeded with other grass which may occupy the ground between clumps. Thrives better in shaded situations than other grasses, and is therefore specially valuable for woodland pastures and meadows. Stands drought better than blue grass and will grow as well on thin soil as any. It is a great favorite among the farmers of the middle south. Per lb. 50c; 3 lbs. \$1.25, postpaid. See red ink price list for quantity values.



ORCHARD GRASS

Write for prices. They change constantly and we cannot make a price which will be inviolable. We issue a price list each week or oftener, as required. If you are in a hurry, order seed and we will send full value of money received on day order arrives. **We pay postage at the 1 and 3 lb. rate only.** If you want pound lots by express deduct 10c per lb. from price quoted. **Large quantities shipped at purchaser's expense.** Bags for grass seeds are furnished free at prices quoted on the red ink price list.

RED TOP

Very hardy perennial, in form similar to blue grass. Specially useful as an item in pastures or meadows on wet soils. Adapted to almost all land but succeeds best and gives best returns with rich soil and plenty of moisture. Like blue grass the legal weight is 14 lbs. per bushel but recleaned seed such as we sell actually weighs 20 to 25 lbs. per measured bushel. It is a persistent grass and holds its place against all others. It will be noted as a component part of our special pasture and meadow mixtures of the following page. Solid seed per lb. 40c; 3 lbs. \$1.00, postpaid. See red ink price list for quantity values.

ENGLISH BLUE GRASS

Also called Meadow Fescue. (Weight 14 lbs. per bushel.) A valuable grass and one growing in use as it becomes known to western planters. Large quantities of seed are now produced in Missouri and Kansas where it is a great favorite as it is perennial. It is splendid in mixed pastures or meadows. Larger and coarser than Kentucky Blue Grass. Quite popular with timothy and clover in permanent pastures, and is included in most of our special grass mixtures on the following page. Sow 20 lbs. per acre if alone. Lb. 40c; 3 lbs. \$1.00, postpaid. See red ink list for quantity price.

PERENNIAL RYE GRASS

Also known as English Rye Grass to distinguish it from the Italian varieties. This sort is perennial, perfectly hardy in our climate and a valuable grass for permanent meadows or pastures. It is a heavy yielder but we think its best place is in conjunction with other grasses. We offer it as a part in our meadow and pasture mixtures. If your soil is too poor for timothy this grass will make a good crop of hay. Legal weight 14 lbs. per bushel. Sow 20 lbs. per acre. Lb. 35c; 3 lbs. \$1.00, postpaid. See red ink price list for quantity values.

ITALIAN RYE GRASS

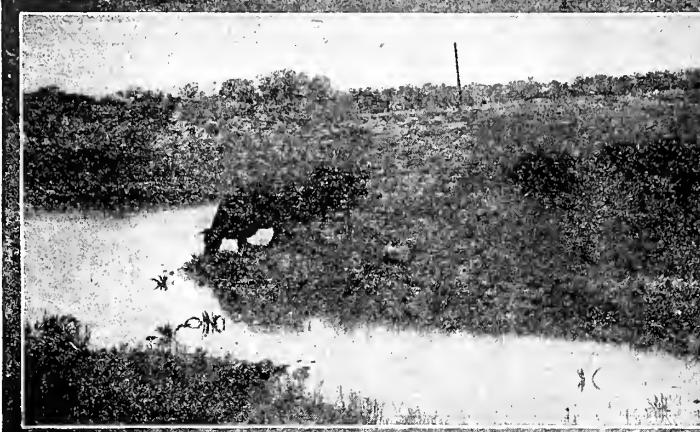
This is the annual rye grass which grows so quickly. Produces a fine crop of hay in 70 to 80 days. Will produce second crop suitable for pasturage after hay harvest. If you do not wish to use small grain as a nurse crop for timothy and clover we recommend this grass as by its use you can secure a crop of good hay and plenty of fall pasturage the first year. Sold at 14 lbs. per bushel. Sow 14 lbs. per acre. Per lb. 35c; 3 lbs. \$1.00, postpaid. See red ink list for quantity values.



MEADOW FESCUE

BERMUDA GRASS

A most valuable grass for the South. Withstands heat and drought wonderfully. Valuable for hay and pasture and unsurpassed for lawns in the South, as it runs over the ground forming a dense turf. Sow 8 lbs. per acre. Per lb. 75c; 3 lbs. \$2.10, prepaid; 5 lbs. or more not prepaid, at 50c per lb.



PERMANENT PASTURE AND MEADOW MIXTURES

PERMANENT UPLAND MEADOW

This meadow mixture is prepared for the purpose of providing a mixed hay of the best quality and which will not only be relished by the stock but will be better for them than any one item would be alone. It is also expected that it may be pastured after cutting a hay crop should it be preferred to use it in that manner. The other grasses in time will crowd out the alfalfa and the red clover will cease to grow after the second year unless permitted to seed itself, and it might be desirable to add two pounds each of alfalfa and red clover per acre after the second year. This top seeding should be done in early spring and a land roller used after the sowing. Based on 3 lbs. red clover, 3 lbs. alfalfa, 6 lbs. timothy, 1 lb. English blue grass, 1 lb. perennial rye grass and 1 lb. orchard grass per acre. Price 35c per lb; 3 lbs. for \$1.00, postpaid. See red ink list.

PERMANENT UPLAND PASTURE

For ordinary soils of the middle west and will be desirable for all kinds of stock. Grasses are all hardy and will furnish pasture from early spring until severe freezing weather. It can be sown with small grain in spring or alone and if alone is ready for use in ninety days from planting. Will continue to supply good pasturage for many years under ordinary usage. The formula is based to supply the following amounts per acre: Alfalfa 1½ lbs., Alsike clover 1½ lbs., red clover 1½ lbs., timothy 3 lbs., perennial rye grass 1 lb., English blue grass 1 lb., Kentucky blue grass 2 lbs., Red Top 2 lbs., orchard grass 1½ lbs. Price, 35c per lb or 3 lbs. for \$1.00 postpaid. See red ink price list for quantity values.

PERMANENT LOWLAND PASTURE

We particularly recommend this mixture for low, moist lands or for pastures that do not have drainage sufficient

to throw off rains quickly. The grasses are all hardy and perennial so that when once sown the pasture should remain in good condition for many years. Circumstances may sometimes warrant a new top seeding, but unless pastured too closely or from some natural injury this pasture will be really permanent and the most valuable you can produce on the soils or situations indicated. Basis per acre: Alsike clover 3 lbs., timothy 4 lbs., Red Top 4 lbs. English blue grass 2 lbs., Kentucky blue grass 2 lbs. This allows 15 pounds per acre and should be sufficient to provide a heavy stand of grass. We recommend rye as a nurse crop because it can be consumed as pasture while the young grasses are getting growth. A bushel of rye and 15 lbs. of the above mixture per acre will give quick and lasting results and wonderful returns. Price, 35c per lb; 3 lbs. for \$1.00, postpaid. See red ink list.

PERMANENT LOWLAND MEADOW

The grasses in this mixture are peculiarly adapted for soils that are heavy and wet, and for those fields that are under water after heavy rains. The crop will equal in quality the best upland hay. Basis per acre: Alsike clover 3 lbs., timothy 3 lbs., red top 3 lbs. English rye grass 3 lbs., and meadow fescue 3 lbs., a total of 15 lbs. These are all perennials and do not require reseeding. Price, 35c per lb; 3 lbs. for \$1.00, postpaid. See red ink price list.

WOODLAND PASTURE MIXTURE

For orchards or timber pastures. It is difficult to start unless the soil can be cultivated, but a top seeding in early spring without cultivation will result in better pasturage than if no care is given other than nature's methods. Basis is White Dutch clover 3 lbs., orchard grass 6 lbs., Kentucky blue grass 5 lbs., English blue grass 3 lbs. and Perennial rye grass 3 lbs. These are permanent. Price, 50c per lb; 3 lbs. for \$1.25, postpaid.



MILLET

There is nothing like millet to cover up shortage in your hay crops. Can be sown in the middle or end of July and makes a valuable catch crop. See red ink price list for current values during the season.

IOWA SHIELD GOLDEN MILLET.—This is an extra fancy grade of the true southern grown Golden millet of the Tennessee or cultivated strain. The seeds are round and "shotty." The heads are very large, borne on a strong vigorous, very leafy plant and produces a much heavier crop than the ordinary stock. Per lb. 25c, 3 lbs. 60c, postpaid.

COMMON MILLET.—Preferred by some to Golden, as it does not grow so rank and coarse. Makes a better quality hay, but will not produce so heavily. Use strong, rich ground for best results. Lb. 20c, 3 lbs. 50c, postpaid.



SIBERIAN MILLET.—Frequently called Red millet. Resembles Golden millet in manner of growth and productiveness. Seed is mixed red and yellow. Lb. 20c, 3 lbs. 50c

HUNGARIAN.—Popular in some sections. Sometimes preferred to millets as it is thought to be less dusty. Per lb. 20c, 3 lbs. 50c, prepaid.

JAPANESE MILLET.—(*Panicum crus-galli*).—A distinct variety called by one seedsmen the "Billion Dollar Grass." Especially valuable for the north. Yields an enormous crop of forage, which is greatly relished by stock. When cured makes an excellent hay. Per lb. 30c, 3 lbs. 75c, postpaid.

MANITOBA MILLET.—Hog or Broomcorn millet. Best for withstanding drought. Two weeks earlier than Golden. Per lb. 20c, 3 lbs. 50c, postpaid.

PEARL MILLET.—Entirely different from ordinary millet, an immense fodder yielder, of tall growth, highly recommended by the Department of Agriculture for the South. Sow in May in the North. Per lb. 35c, 3 lbs. \$1.00, postpaid.

LAWN GRASS SEED

**"EVERGREEN"
AND
"SHADY PLACE"**
Lawn Grass
Prepared by
THE IOWA SEED CO.
DES MOINES, IOWA

A fine lawn for home, garden, or
with the refreshing play of
the sun's rays on the grass.
No other place of the year
is so pleasant for walking,
and the shade of trees, grass,
and flowers.

A nice velvety lawn adds more to the beauty of a place than any other adornment, and even the humblest home may be made attractive with such surroundings, while without a good lawn even the finest flowering plants and elegantly arranged beds seem insignificant. How important it is then to plan for the best lawn obtainable. Do not spend money in sodding a lawn, for it is expensive and seldom satisfactory. When sod is cut from the roadside or some out-of-the-way pasture, it is poor in quality and full of weeds, and when unevenly laid produces a rough surface. It costs much less to sow the seed and the lawn is far better. Ask for twenty-page circular of information, "How to Make a Lawn."

**EVERGREEN MIXED
LAWN GRASS SEED.**
(Bu. 15 lbs.)—This is our own special mixture of grass seeds which are suited for growing together in the central and northern states and will make a beautiful, soft, velvety lawn, as handsome green as an emerald and is formed of grasses which keep green from early spring all through the summer weather until late in fall. It comes up quickly and after once up it soon spreads to cover the ground and is ready for the lawn mower in 6 or 8 weeks. It is permanent, though it is a good plan to give a lawn a top seeding every 2 or 3 years. Made from new crop, re-cleaned, pure seeds. Per lb. (will sow 400 sq. ft.) 40c, 3 lbs. \$1.10, postpaid. Not prepaid. 10 lbs. \$3.30.



TERRACE LAWN MIXTURE.—Bu. 15 lbs.)—It is very difficult sometimes to grow a good sod on sloping ground, terraces, side hills, or on embankments. This is a mixture of grasses which have strong and spreading roots, making a close turf which heavy rains cannot wash out easily. On new lawns some oats should be sown in order to prevent washing until the grass gets a start. Per lb. 50c, 3 lbs. \$1.35, postpaid. Not prepaid, 10 lbs. \$3.50, 50 lbs. \$17.00, 100 lbs. \$33.

WHITE CLOVER, "Iowa Shield" Brand.—The well known common white clover is very hardy and its dwarf growth makes it desirable for lawn mixtures. Its close, dense turf and creeping habit makes it fine for terraces and sloping ground. Seed very small and requires but little in mixtures. Lb. 75c, 3 lbs. \$2.25, postpaid.

KENTUCKY BLUE GRASS, "Iowa Shield" Brand.—(Bu. 14 lbs.)—Our stock of this is the best grade of fancy cleaned, new crop, tested seed. The crop is very short and prices may advance before spring. Lb. 50c, 3 lbs. for \$1.40, prepaid. Not prepaid, 10 lbs. \$3.30, 50 lbs. \$15.50, 100 lbs. \$30.00. See red ink price list.

LAWN FERTILIZERS

LIME-FERTILE.—A preparation of hydrated lime, with nitrogen cultures. Will renovate the soil in shaded places and add to growth of grass. Use 10 lbs. to 100 square feet. 5 lbs. 25c, 10 lbs. 40c, 25 lbs. 75c, 100 lbs. \$2.50.

PEERLESS FERTILIZER.—Lawn grass is a voracious feeder and will not thrive and hold its color and velvety appearance unless it is suitably fed. Our Peerless Fertilizer is of best quality, dry, finely pulverized, easy to apply, practically non-odorous. In preparing a new lawn, sow 25 to 50 lbs. per 1,000 sq. ft. of surface, according to richness of soil, raking in thoroughly. For top dressing on lawns, use about 40 lbs. per 1,000 sq. ft., or 1,000 lbs. per acre, early in spring. 10 lb. pkg. 60c, 25 lbs. \$1.00, 50 lbs. \$1.75, 100 lbs. \$3.25. Ask for price in quantity.

SHEEP MANURE.—This is a natural manure, unadulterated. If wanted in liquid form, dissolve at the rate of 1 lb. to 5 gallons of water. Price, 10 lbs. for 50c, 50 lbs. \$1.25, 100 lbs. for \$2.00. Ask for price in quantity.

PURE BONE MEAL.—It is clean, free from odor and gives results in added growth of grass.

Preferred by many users because it lasts longer than other showing need of fertilizers, one application usually showing results for several seasons. 10 lbs. \$1.00, 50 lbs. \$1.75, 100 lbs. \$3.25. Ask for price in quantity.



Roots of grass showing effect of Peerless Lawn Dressing.



Our floral beauties come in for their full share of attention, and aside from our seed farm we have twelve acres of land right in the city, convenient to the street cars, devoted exclusively to flowers. Here we grow thousands of varieties and have in our employ experienced specialists in this line, who, under our supervision, attend to growing whatever can be grown to advantage in this country, test all novelties offered in this country or Europe, and are constantly trying by selection and hybridization to improve the leading varieties, and make our choice Iowa Flower seeds just what we are striving for—the best in the world. **We invite all our customers to call and see this Floral Exhibition whenever they are in the city.** Even during the winter the large green-houses on these grounds are a revelation of beauty which surprises everyone. We also have a large acreage on our seed farms east of this city devoted to floriculture. Our flower seeds are all fresh and we know are unsurpassed. Quality is always the first consideration. Our mixtures are mainly made up by ourselves from named varieties, or from growing a large number of the best named varieties together, and will yield a better assortment than is commonly found. This year we classify the climbers, everlastings and grasses separately at the end of the list and this will be found an advantage when seeking something for special uses.

HOME FLORICULTURE

By Chas. N. Page, formerly President Iowa Seed Co.
A book of instructions for growing flowers either from seeds or plants. Price in paper covers 25c.

DIRECTIONS FOR SOWING, ETC.—The conditions and requirements of the several species as to soil, moisture, heat, etc., should be studied and observed in culture. We give a few general instructions though more complete directions are printed on seed packets. The soil best adapted to most flowers is light, rich loam, containing enough sand to make it porous. If there is some clay with it the colors will be brighter. Make surface smooth and fine as possible; sow seeds in rows, covering each sort of seed in proportion to its size and you should press the soil down firmly over the seeds. Do not plant any seeds when the ground is wet. Many varieties, such as pansy, verbena, daisy, hollyhock and the fine greenhouse plant seeds, should be sown early in shallow boxes in the house, in soil consisting of equal parts of fine sand and rich, mellow loam well mixed together and sifted to remove all gravel and lumps. Sow as before directed. Covering the box with glass helps to retain the moisture and keeps the temperature even. Be careful not to keep too wet, and when large enough to handle, transplant to boxes from one to two inches apart to remain until put in permanent beds.



ABRONIA



AMARANTHUS



ARCTOTIS GRANDIS

ALYSSUM



ANTIRRHINUM



ALYSSUM

ANTIRRHINUM

(Snapdragon)

GIANT FLOWERED.—Most beautiful new class, having all the finest colors and markings known in the old varieties, together with several new shades. Flowers are of immense size and produced in long spikes, 1 to 2 feet high, almost as large and beautiful as gladiolus, blooming continuously. Pkt. 10c; $\frac{1}{4}$ oz. 40c; oz. \$1.25.

DWARF MIXED.—Smaller than the giant type but very desirable for open planting. Flowers are large, open and of many shades of color. Pkt. 5c; $\frac{1}{4}$ oz. 30c; oz. \$1.00.

ARCTOTIS GRANDIS

This is a remarkably handsome annual which forms much-branched bushes about 2 feet high. The foliage is soft and downy and of a whitish color; its flowers, borne on long stems, rising well above the foliage, are large and showy; the surface, embellished with a narrow yellow zone at base; reverse of petals lilac-blue; disc is light blue with slightly projecting white stamens. A lovely flower. Pkt. 10c.

ASPERULA

AZUREA SETOSA.—Is a hardy, dwarf growing little annual, producing an abundance of small, light blue, sweet-scented flowers. Fine for bouquets. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 25c.

AMARANTHUS

Prized for very handsome foliage, whether grown in conservatory or garden. Colors will be more brilliant if in moderately rich soil. Should not be planted in the north before May.

TRICOLOR.—Leaves yellow, red and green; well known as "Joseph's Coat." Hardy annual; 2 feet high. Pkt. 5c.

SALICIFOLIUS.—Known as "Fountain Plant." Pkt. 10c.

CAUDATUS.—(Love Lies Bleeding.)—Produces long, drooping chains of brilliant colored flowers. Pkt. 5c.

MIXED VARIETIES.—Pkt. 5c; $\frac{1}{4}$ oz. 10; oz. 30c.

AGERATUM

BLUE PERFECTION.—A great improvement over the common blue ageratum. Flowers larger and of a deeper blue. Blooms profusely; striking for beds or borders. Pkt. 10c; $\frac{1}{4}$ oz. 25c.

MEXICANUM.—(Blue.)—Suitable for beds; blooms long time; largely used by florists; start seeds early. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.

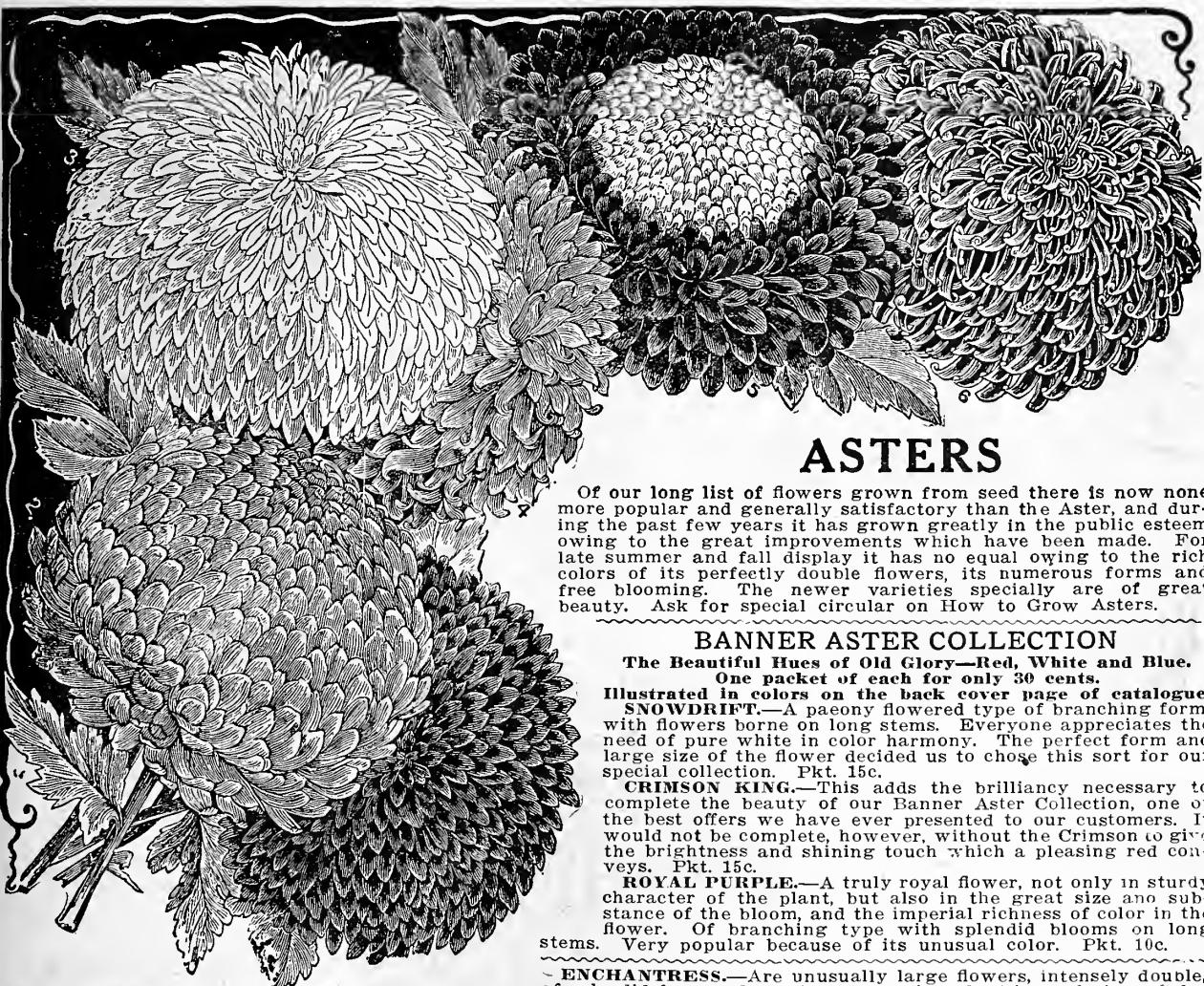
ALBIFLORUM.—Like above, only white. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 45c.

AGROSTEMMA

A hardy plant introduced from Russia. Blossoms similar to pinks on long, slender stems. Suitable for border plants; fine for bouquets or cemetery. Mixed colors. Pkt. 5c.

AMBROSIA

(Perfume Plant.)—Long spiral stem with abundant round, greenish-yellow buds and blossoms. Very fragrant. Fine for bouquets or floral work. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.



ASTERS

Of our long list of flowers grown from seed there is now none more popular and generally satisfactory than the Aster, and during the past few years it has grown greatly in the public esteem owing to the great improvements which have been made. For late summer and fall display it has no equal owing to the rich colors of its perfectly double flowers, its numerous forms and free blooming. The newer varieties specially are of great beauty. Ask for special circular on How to Grow Asters.

BANNER ASTER COLLECTION

The Beautiful Hues of Old Glory—Red, White and Blue.
One packet of each for only 30 cents.

Illustrated in colors on the back cover page of catalogue.
SNOWDRIFT.—A peony flowered type of branching form with flowers borne on long stems. Everyone appreciates the need of pure white in color harmony. The perfect form and large size of the flower decided us to choose this sort for our special collection. Pkt. 15c.

CRIMSON KING.—This adds the brilliancy necessary to complete the beauty of our Banner Aster Collection, one of the best offers we have ever presented to our customers. It would not be complete, however, without the Crimson to give the brightness and shining touch which a pleasing red conveys. Pkt. 15c.

ROYAL PURPLE.—A truly royal flower, not only in sturdy character of the plant, but also in the great size and substance of the bloom, and the imperial richness of color in the flower. Of branching type with splendid blooms on long stems. Very popular because of its unusual color. Pkt. 10c.

ENCHANTRESS.—Are unusually large flowers, intensely double, of splendid form and substance, covering plant in profusion. Color light pink. Flowers medium early and continuously. Plant of branching type. A dainty color and a general favorite. Pkt. 10c.

VIOLET KING.—A branching aster of the peony flowered type, which is the most popular shape of bloom. Large flowers 4 to 5 inches across, of beautiful, rich, violet purple color. Per packet 10c.

VARIOUS TYPES OF ASTERS IN MIXTURES

IMPROVED BRANCHING.—This is the most popular florists' strain. It is also a popular type for outdoor growing and is sold in greater quantity than any other. We can furnish it in the following colors:

White	Pink	Lavender
Rose	Crimson	Purple
Carmine	Dark Violet	Mixed colors

Each per pkt. 10c; $\frac{1}{4}$ oz. 40c; oz. \$1.25.

One packet each of eight separate colors of this splendid type for 60c.

SEMPLE'S BRANCHING.—Flowers are large and double, borne on large, stiff stems. A splendid low priced strain of the branching type. Mixed colors. Pkt. 5c.

GIANT COMET MIXED.—Shape differs from all others, resembling the Japanese chrysanthemum. The flowers are from 3 to $4\frac{1}{2}$ inches in diameter, perfectly double. Pkt. 10c; $\frac{1}{4}$ oz. 40c; oz. \$1.25.

MIKADO.—Immense size with curled and twisted petals. A special strain from Giant Comet stock that is very attractive and popular. Mixed rose and white. Pkt. 15c.

BETTERIDGE'S QUILLED.—Perfectly double, tube or quill shaped petals; valuable for bouquets and bedding. A splendid type and one that will appeal because of their distinct form and appearance of the blooms. Mixed colors. Pkt. 10c.

QUEEN OF THE MARKET.—This is generally conceded to be the best early type of aster. They usually bloom two weeks in advance of the ordinary branching types. Rather dwarf and of spreading habit. Mixed colors. Pkt. 5c; $\frac{1}{4}$ oz. 30c; oz. \$1.00.

ROYAL MIXED.—This is our choicest mixture of types and colors, made from named varieties and specialties in high grade asters. It will produce the widest range of colors and the strongest and most vigorous plants. Mixed in our own establishment to safeguard its quality. Pkt. 10c; $\frac{1}{4}$ oz. 40c; oz. \$1.25.

PERFECTION MIXED.—(Truffant's Improved Peony Flowered.)—A favorite; flowers large and almost perfectly round, incurved petals. Really choice strain which we offer as a low priced mixture of this form. Pkt. 5c.

FINE MIXED.—Mixture of varieties and colors from the fields of the growers. Good seed at a low price. Flowers of many forms and sizes will be produced from this mixture, and this feature makes it very desirable for bouquet work or interior decorations. Pkt. 5c; $\frac{1}{4}$ oz. 30c; oz. \$1.00.

SINGLE FLOWERING MIXED.—This plant bears a mass of star-shaped flowers. Pkt. 5c.

PERENNIAL MIXED.—Single flowering, hardy, herbaceous plants. If sown early will flower first season. Pkt. 5c.

BIG SIX ASTER COLLECTION

One packet each of the six beautiful varieties illustrated above for 45c.

LAVIDER GEM.—(No. 2.)—The daintiness of the lavender color delights the eye, while the perfect form and lovely type of the bloom itself makes the Lavender Gem a cherished aster among all lovers of this flower. It is almost impossible to make a color combination in which lavender is not harmonious. Per pkt. 10c.

CARDINAL.—(No. 1.)—A type of branching aster producing immense large flowers of cardinal red on strong, upright stems. Unexcelled as a show flower, either in beds or as cut flowers. Per packet 10c.

PURITY.—(No. 3.)—A beautiful and distinct variety and the best white; of refined and faultless form and very freely produced. Fine for pot culture. Per pkt. 15c.

DAYBREAK.—(No. 4.)—Truly a magnificent novelty in asters. Of the most beautiful delicate shade of shell pink. Show at their best when mingled with darker shades. Of branching type, producing blossoms of perfect shape on long stems. Per pkt. 10c.

CROWN.—(No. 5.)—Center of each flower white; surrounded by broad margin of color—crimson, rose, violet, etc.; flowers are large, freely produced. Beautiful and showy. Mixed colors. Pkt. 10c.

CREGO.—(No. 6.)—A new strain of chrysanthemum flowered asters. Combine the splendid coloring and shading of the Marvel type with the unique form and attractive distinctness of the Harlequin and quilled varieties. Will be appreciated by those who appreciate odd sorts. Mixed colors. Pkt. 15c.

AQUILEGIA

(Columbine.)—Too much praise cannot be given to these elegant, free-flowering and deservedly popular hardy plants; bloom profusely through spring into early summer. Hardy perennial.

LONG SPURRED HYBRIDS.—A much more robust species, both in plant and flower, than the ordinary kinds. Colors show wide variations and beauty. Splendid, showy, lasting flowers for interior. Pkt. 15c.

CHRYSANTHA.—The beautiful large flowered variety. Very showy and satisfactory. Pkt. 10c.

COERULEA.—Flowers very large, violet, blue and white. Seed in mixed colors only. Pkt. 10c.

DOUBLE VARIETIES MIXED.—A fine assortment. Per pkt. 10c.

AFRICAN GOLDEN DAISY

(*Dimorphotheca Aurantiaca*.)

This showy annual comes from South Africa. Of recent introduction it is so profuse in bloom, so brilliant in color, so useful for decoration and so easily grown that it is becoming a great favorite everywhere. The blossoms are 2 to 3 inches in diameter, a peculiarly rich, glossy orange gold color, produced quickly on sturdy, hardy plants 12 to 15 inches high. A bed of it in full bloom is truly a splendid show. Pkt. 10c.

HYBRIDS MIXED.—Improved type of the original form in mixed colors. Pkt. 10c.



PEERLESS MIXED BALSAMS

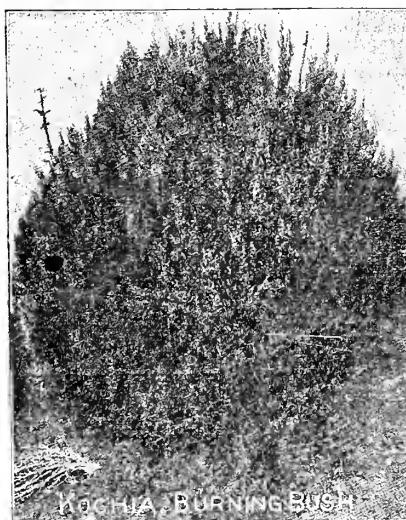
BALSAM

One of the most beautiful of our annuals, and under the old names Lady Slipper and Touch-Me-Not, has always been popular, but by the care and attention given it in the last few years, it has been greatly improved. The flowers are most brilliantly colored, very large and double, rich in colors, ranging from pure white to rich, dark crimson. Pkts. contain about 50 seeds.

CAMELIA-FLOWERED MIXED.—Are very double, resembling the camelia in form, of unusual size, perfect shape, and our mixture contains all the best colors. You will be greatly pleased with it. Pkt. 5c; oz. 40c.

PEARLESS MIXED.—A new mixture made up from best foreign and American strains and their beauty is truly marvelous. Flowers are double and all known colors. Plants loaded with hundreds of flowers. Pkt. 10c; oz. 60c.

ALL VARIETIES MIXED.—A nice mixture of older sorts. Pkt. 5c; oz. 35c.



KOCHIA BURNING BUSH

AFRICAN
GOLDEN
DAISY

MEXICAN BURNING BUSH

This we consider one of the very best annual border or hedge plants and is sure to attract attention. Known botanically as *Kochia Scoparia*. It grows quickly from seed sown in the open ground. Plants are always of rounded or globe-like form shown in our illustration, branch freely, and the stems are clothed with slender, light green leaves. Early in the fall the ends of the shoots are thickly set with small, bright scarlet flowers, the bushy plants resembling balls of fire. The plants are equally showy planted singly to show the round, ball-like form on all sides or grown in continuous rows. Per pkt. 5c; ¼ oz. 20c; oz. 50c.

CHINESE WOOLFLOWER

CELOSIA CHILDSII.—This new *Celosia* is a most magnificent garden annual. Its ease of culture and long continued blooming season (July until frost), together with its massive bunches of wool-like flowers and glowing color, combine to make it the most odd as well as the showiest novelty for the general flower garden. Plants grow about three feet high, the bloom starting early with a globular central head of immense size, while numerous branches are sent out, each bearing a ball of scarlet wool, while each branch produces many laterals which also develop excellent heads of bloom that last until killed by frost and expand with a deepening richness of color to a deep crimson scarlet. Pkt. 15c.



VERNON BEGONIA
BEGONIA

Seeds very small, almost microscopic, and should be sown on top of soil in box, pressing soil evenly. Cover with a glass and give partial shade until up.

VERNON.—Comes true from seed. Plants grow rapidly and thrive under our hot summer sun. Fine for bedding. Pkt. 10c.

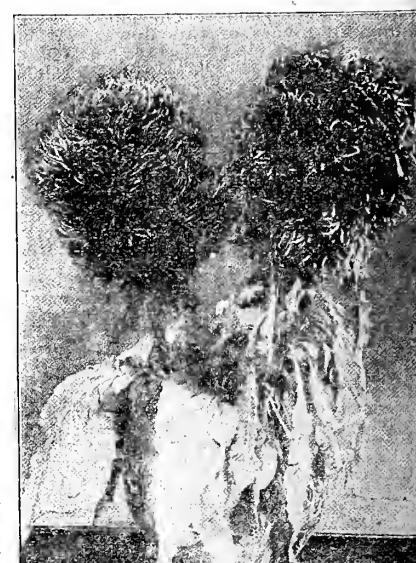
MIXED VARIETIES.—Excellent varieties of flowering sorts. Pkt. 10c.

**BUTTERFLY FLOWER**

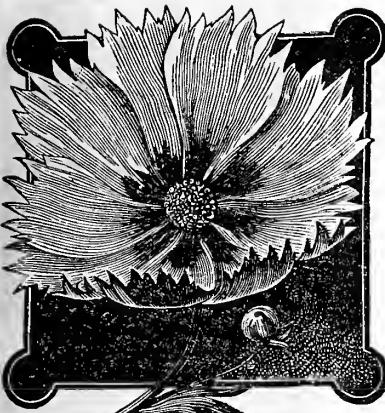
This large-flowering variety of *Schizanthus* is one of the handsomest annuals, the shape and colors being so unusual and exquisite that it challenges the rare orchids in beauty. Easily grown and makes a bushy plant fairly loaded with rich and various colored flowers. Pkt. 5c.

BRACHYCOME

Also called "Swan River Daisy." Very pretty low-growing plants, fine for borders, rustic work or pot culture, covered during summer with a profusion of cineraria-like flowers. Half-hardy annual. Mixed blue and white. Pkt. 10c.



CHINESE WOOLFLOWER



GOLDEN WAVE CALIOPSIS.

CALIOPSIS

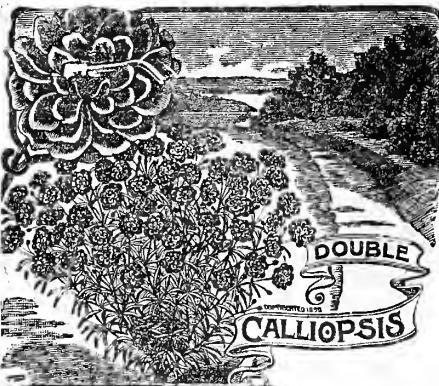
Many of our most showy flowers are slighted because they are common and grow anywhere without trouble or care, almost like weeds. One of these is the calliopsis. Were it a new thing it would be considered a novelty of rare excellence.

LANCEOLATA.—New Golden Coreopsis. —One of the most showy **hardy perennials grown**, forming tall plants two or three feet high, and bearing in great profusion for a long period during the summer, large flowers of bright golden yellow. Unequaled for cutting. Grows anywhere. Pkt. 10c; $\frac{1}{4}$ oz. 25c; oz. 75c.

GOLDEN WAVE.—Plant very bushy and compact, reaching 2 ft. in height, covered from July until October with hundreds of beautiful golden blossoms 2 in. in diameter, with small dark centers. It is indeed a wave of gold. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.

SINGLE MIXED.—Mixture of annual varieties. Many shades of yellow, red and brown. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 30c.

NEW DOUBLE.—A beautiful and charming new type of the annual Caliopsis. Pkt. 5c; $\frac{1}{4}$ oz. 20c; oz. 50c.

**CAMPANULA**

CUP AND SAUCER.—A beautiful variety. Bell nearly 4 inches in diameter, presenting form of a saucer, hence its name. Plant is of strong growth, quite as hardy and floriferous as old blue variety, and is elegant and handsome, when in flower blossoms literally hiding plant. Perennial. Mixed colors. Pkt. 10c.

SINGLE MIXED.—A choice mixture of single sorts. Pkt. 5c.

DOUBLE MIXED.—Choicest seed from selected plants. Pkt. 10c.

CANTERBURY BELLS

CAMPANULA MEDIUM.—A very pretty perennial quite popular and well known. Very striking in permanent plantings. Illustrated on page 110. Double and single; mixed colors. Pkt. 10c.



BROWALLIA

BROWALLIA

GRANDIFLORA.—This is a comparatively new variety and is the most beautiful of all Browallias. Grow only about 1 ft. high; form dense little bushes covered with abundance of delightful extra large sky-blue flowers. Hardly another plant with blue flowers that compares with it. Pkt. 10c.

CALENDULA

Belongs to the well known marigold family. An annual of the easiest culture and quite effective in mass plantings or in beds bordered with low growing flowers.

FINE MIXED.—Many nice varieties and when planted together they make a showy bed. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 25c.



CALENDULA

CANDYTUFT

Considered indispensable for cutting. All varieties look best in beds or masses; hardy, easy to cultivate, and blooms profusely. Hardy annuals one foot high.

GIANT EMPRESS.—One of the finest varieties. Of very branching habit and when fully grown and covered with its pure white flowers resembles a floral candelabra. Pkt. 10c.

BEST MIXED.—Mixture of all varieties and colors. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 30c.

SEMPERVIRENS.—Profuse blooming white perennial. Illustrated on page 111. Early. Pkt. 10c.

CARNATION

Finest of the dianthus or pink family. Very fragrant. Our seed unsurpassed.

DOUBLE EXTRA MIXED.—The best greenhouse varieties. Will produce wide variety in markings and colors. Pkt. 10c.

MARGUERITE.—Mixed.—These lovely, fragrant flowers are in full bloom in about four months after sowing. Plants succeed alike in the open garden or in pots, and are of such vigorous, dwarf, erect growth that no supports are required. The range of color, marking, variegations and shading are simply wonderful. Pkt. 10c.



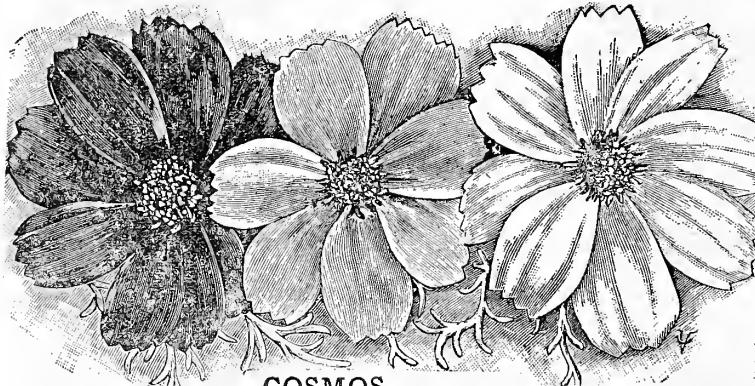
MARGUERITE CARNATIONS



GIANT EMPRESS COCKSCOMB

pot plants or specimens in beds, where they excite the curiosity of visitors more than almost any plant that can be grown. The Empress is the finest and most gorgeous variety yet introduced. It is not uncommon for the heads of this variety to measure over twelve inches in breadth; purple combs and dark bronze foliage. Pkt. 10c.

GOLDEN GLOW.—A most attractive novelty. Plants large and produce many handsome flowers 5 to 10 inches in diameter, of a bright, rich golden yellow color. Per pkt. 10c.



COSMOS

A magnificent race of plants growing about 4 to 6 feet high, and in fall literally covered with graceful flowers resembling single dahlias, but better for cutting. As a cut flower for vases or personal wear its grace and beauty is unequalled. Easily raised from seed if sown early.

LADY LENOX.—Beautiful light pink flowers of extra large size. Full, vigorous plants, six to seven feet. Unequalled among annuals for screens and tall borders. Pkt. 10c; $\frac{1}{4}$ oz. 20c; oz. 50c.

EARLY DAWN MIXED.—Introduced by us and it jumped at once into popularity on account of its extreme earliness, coming in bloom about two months from time of sowing and continuing until destroyed by frost. The plants have fine, feathery, light green foliage and delicate rose, purple, white and lilac flowers. A free blooming plant of easiest culture. Mixed colors. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 45c.

MAMMOTH PERFECTION.—Flowers double the size of the old flowering cosmos. Seed should be sown early in the house, as they are quite late. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 45c.

CACALIA

COCCINEA.—A handsome, free-flowering little plant; owing to peculiar form of the flower it is sometimes called Tassel Flower or Flora's Paint Brush. Scarlet. Pkt. 5c.



DOUBLE CENTAUREA

CACTUS

Almost everyone who keeps house plants likes to have a few nice Cacti. The seed we furnish is collected from the choicest varieties in Arizona, New Mexico, Texas, California and Old Mexico, as well as some foreign countries, and mixed together. Easily grown from seed planted in clean sand. Pkt. 10c.

CELOSIA

For summer beds we know of nothing that will produce as showy and brilliant effects.

SPICATA.—A wonderful new variety of Celosia and far different from any ever before seen. It is a handsome annual, forming upright, well branched pyramids, about 2½ feet in height, and producing at the summit of each branch spikes of flowers of a bright rose color when opening, changing to silvery white; fine for garden or growing in pots. Pkt. 10c.

OSTRICH FEATHER.—Beautifully curled crimson plumes. Pkt. 10c.

ALL VARIETIES MIXED.—Pkt. 10c.

COCKSCOMB

GIANT EMPRESS.—Is very handsome either for

yet introduced. It is not uncommon for the heads of this variety to measure over twelve inches in breadth; purple combs and dark bronze foliage. Pkt. 10c.

CELOSIA SPICATA
CHINESE LANTERN PLANT

Showy annual about 18 inches high, bears large red, cherry-like fruits each enclosed in enormous balloon-like, semi-transparent calyx, about three inches long, at first light green, gradually changing to yellow, then orange, and finally crimson. Really a large ground cherry. Effective in autumn garden or pots. Better on rather poor soil. Pkt. 10c.

COLEUS

Very decorative border plant. Pkt. of 150 seeds. FINE MIXED COLORS.—Pkt. 10c.

RAINBOW.—Finest sort; sure to please. Pkt. 15c.

CENTAUREA

CYANUS.—Called Ragged Sailor, Corn Flower, Blue Bottle, Bachelor's Buttons and Bluet. A very old favorite garden annual, flowering freely in almost any situation. Height 2 to 3 feet. Mixed colors. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 30c.

CYANUS DOUBLE.—A most charming sport from the above, well shown in our illustration. Flowers very large and globular. A continuous bloomer, and becoming quite popular. Our mixture contains a great variety of colors. Pkt. 10c.

MARGUERITE.—One of the handsomest flowers ever produced. Large flowers of purest white, deliciously scented, exquisitely lacinated, freely produced. Pkt. 10c; $\frac{1}{4}$ oz. 20c; oz. 60c.

GYMNOCARPA.—(Dusty Miller).—The foliage of this variety is finely cut and silvery. It is perhaps the best white leaved plant for bedding purposes. Pkt. 10c.

IMPERIALIS MIXED.—A grand improvement on the old favorite Sweet Sultan; long stemmed blossoms 3 to 4 inches across, of graceful, airy effect, and deliciously fragrant. Glistening white, red, blue, lilac, royal purple, etc. Fine for bouquets, vases or as corsage flowers. If cut scarcely opened will last for ten days in water. Pkt. 10c; $\frac{1}{4}$ oz. 25c; oz. 80c.

**CHRYSANTHEMUM**

The Annual Chrysanthemums are different from the large flowered perennial sorts grown by florists; grow easily from seed; flower freely in summer and fall.

CHAMELEON.—A new and distinct annual variety producing very large single flowers in purple, black, crimson, yellow and copper. Pkt. 10c.

NEW DOUBLE ANNUAL.—A valuable and unique novelty. Extremely variable. It is impossible to describe the beautiful forms produced. A great variety of colors, markings and pencilings. It is very double, semi-double or single, all equally charming. Pkt. 5c; $\frac{1}{4}$ oz. 20c; oz. 50c.

PERENNIAL.—Double Mixed. This is the popular greenhouse sort. Showy and desirable for fall and early winter blooming. A great variety of colors, markings and pencilings. Pkt. 10c; $\frac{1}{4}$ oz. 40c; oz. \$1.00.

CLARKIA

A very pretty and desirable hardy annual about 2 feet high. Flowers are white, red, purple, etc., borne in profusion during summer.

SINGLE AND DOUBLE MIXED.—Pkt. 5c.

DOUBLE ANNUAL CHRYSANTHEMUMS

**DAHLIA**

The dahlia is well known, but few are aware that if the seed is sown early in the spring they will bloom the first year.

BEST DOUBLE MIXED.—Our seed is of the finest strain, and produces large, very double flowers of richest shades. Pkt. 15c.

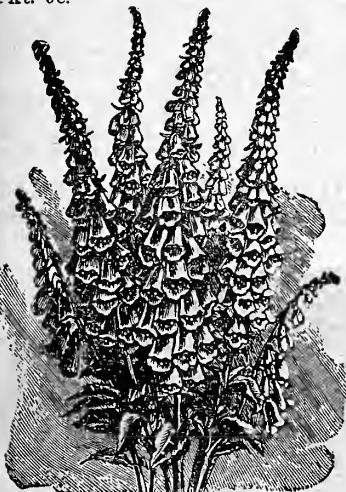
SINGLE MIXED.—Pkt. 10c.

DATURA

A large, strong-growing plant with trumpet-shaped flowers of large size.

CORNUCOPIA.—Plant about 3 feet high; stems dark purplish maroon; the flowers 8 in. long, 5 in. across throat, formed of two or three flowers one within the other. Very fragrant. Per pkt. 10c.

SINGLE VARIETIES.—Mixed. Pkt. 5c.

**FOXGLOVE**

A showy perennial; a general favorite and now planted extensively for permanent backgrounds, borders and clump effects. Splendid for harmonizing with plantings of shrubs and thrives in any ordinary garden soil.

GLOXINIAFOLIA.—Is an improved strain growing 4 to 5 feet high, producing large gloxinia-like flowers of many shades and markings. More robust than ordinary sorts. Pkt. 10c.

MONSTROSA MIXED.—A distinct type, the striking feature of which is that a large bell-shaped blossom tops each spike. Pkt. 10c.

Popular perennials, blooming the first year from seed; very handsome for borders or pots.

BEST DOUBLE MIXED.—Low growing sorts for massed beds or borders. Usually known as the small English Daisies. Pkt. 5c.

NEW GIANT SNOWBALL.—Most charming variety of this handsome little flower. Has unusually large double flowers on long stems, making it valuable for cutting. Color pure snow white. Pkt. 10c.

SHASTA DAISY.—Alaska.—See page 74. Pkt. 10c.

DAISY**DIANTHUS**

The Dianthus, or Chinese Pink, is one of our most useful plants, furnishing abundance of gay and pretty flowers until frozen and covered by drifting snows. Quite as pretty for pot plants in the house as carnations. Plants from seed grow and bloom very quickly.

ORIENTAL OR JAPANESE MIXED.—Markings and colors are rich and brilliant, form of blossoms dainty and beautiful. A few blooms will be solid colors but most of them will show wonderful variations, striped, blotched and banded. Colors range from white to deep crimson and maroon and flowers are produced profusely and continuously. More fragrant than older type of Dianthus. Pkt. 5c; $\frac{1}{4}$ oz. 20c; oz. 50c.

FIREBALL.—A beautiful, very dwarf and compact-growing pink, only 10 to 15 inches in height. Flowers are perfectly double and color a rich velvety blood red. Plants begin to flower shortly after coming up and continue till severe frost. Effective for garden beds. Pkt. 10c.

SNOWBALL.—Fit companion to above. Flowers large, pure white, double, finely fringed, perfect form. Makes a fine plant for borders of beds and is splendid in mixed bouquets by reason of its fragrance. Pkt. 10c.

HEDDEWIGI.—Finest selected double mixed. Colors vary from deep, velvety crimson to soft, satiny rose. One of the most showy. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

DOUBLE DIADEM PINK.—A superb large double flower, is hieroglyphically marked, like the original Chinese pinks, in the middle down to the base of each petal; magnificent in color and variety. Pkt. 10c.

CHINENSIS.—(Double Chinese Pink.)—Blooms in clusters. Flowers very double and of wide range in color. Mixed. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

MIXED VARIETIES AND COLORS.—Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

BUSH DOLICHOS

DWARF WHITE.—Bush form of well known Hyacinth Bean, which is popular as a summer climber. This form grows two to three feet high, bears blossoms similar in appearance to sweet pea, but borne on long racemes; pure white and very lovely. Followed by ornamental pods. Pkt. 10c; oz. 40c.

ESCHSCHOLTZIA
(California Poppy)

The California poppies are popular because they are so easy to grow, so brilliant in color, and bloom under most trying conditions. They have been greatly improved in recent years, and are truly beautiful.

CRIMSON.—This choice novelty is the result of nine years' careful selection from a chance sport in a bed of yellow Eschscholtzia, the state flower of California. Flower bright, handsome crimson. Easily grown, producing a profusion of flowers. Pkt. 10c.

SINGLE MIXED.—The common California poppy. Fine form, deep golden color, and very popular for sowing in masses. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 35c.

DOUBLE MIXED.—We believe the double form of this flower will prove very satisfactory to all flower lovers. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.

GOLDEN WEST.—A giant flower of a rich golden yellow color, some specimens having a dark orange blotch in the center. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.

HUNNEMANNIA.—"Bush Eschscholtzia." Flowers are cup shaped and about 3 in. in diameter. Color clear, bright yellow, having a satiny sheen over the surface. Sow thick as it generally germinates only about 50 per cent. Pkt. 10c.

EUPHORBIA

VARIEGATA.—Are strong growing annuals suitable for beds of tall growing plants or mixed borders; flowers inconspicuous; foliage, however, is ornamental, veined and margined white. Commonly known as "Snow on the Mountain." Pkt. 5c.

FOUR O'CLOCK

(Mirabilis).—The Marvel of Peru, or Four O'Clock. One of the most brilliant, showy annuals. Planted in beds or masses, their compact growth, rich, glossy leaves and profusion and diversity of bloom, present a gorgeous sight in the afternoon.

MIXED COLORS AND VARIETIES.—Contains a fine assortment of colors and is always satisfactory. Pkt. 5c; oz. 20c.

GODETIA

Handsome, showy annual about one foot high, of dwarf, compact growth; bear freely flowers 3 to 4 in. across, of exquisite colors.

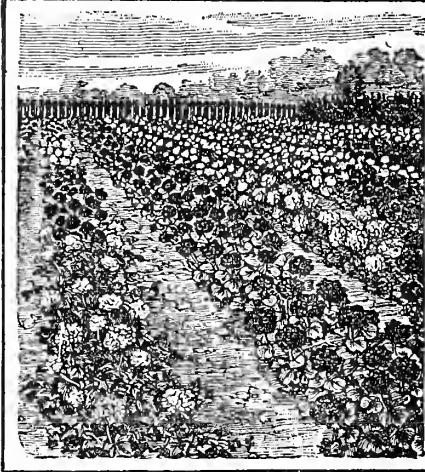
MIXED VARIETIES.—All colors. Pkt. 5c.

ELECTRIC LIGHT PLANT

A sturdy, bushy plant of about 4 feet, covered constantly with large spikes of flowers 6 to 9 in. long which are pure white at base and range from rose to bright red at apex. Grows readily from seed, which should be planted in open ground early in spring. Showy and ornamental for clumps or massing. Pkt. 10c; $\frac{1}{4}$ oz. 25c; oz. 75c.



FOUR O'CLOCK

GERANIUM

GOOD VENTURE GERANIUM

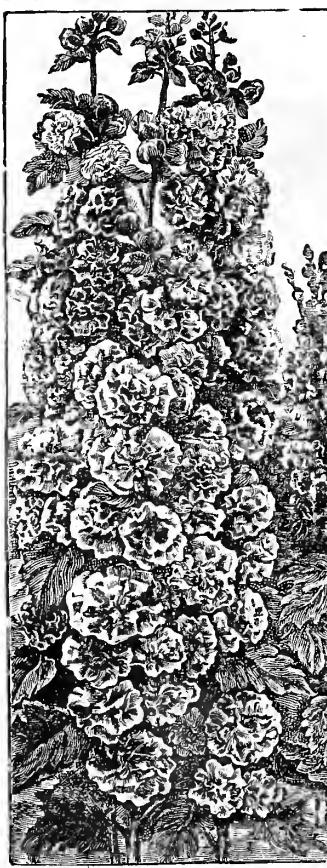
ennial, fine for borders. Double and single mixed. **DOUBLE CLOVE PINKS.**—A new type that grows more compact than old fashioned kind and has much wider range of shades and richer coloring. Blooms two weeks earlier than older type. Pkt. 10c; $\frac{1}{4}$ oz. 35c.

GOLDEN ROD

A well known general favorite that grows wild on our western prairies. It has been adopted by New York as state flower. Is admired by all, and is easily grown from seed. Pkt. 5c.

ICE PLANT

A handsome and curious plant for hanging baskets, rockwork and vases. The leaves and stems appear as though covered with crystals. Peculiarly brilliant in sunshine. Flower white and pink. Pkt. 5c.



EVERBLOOMING ANNUAL HOLLYHOCK

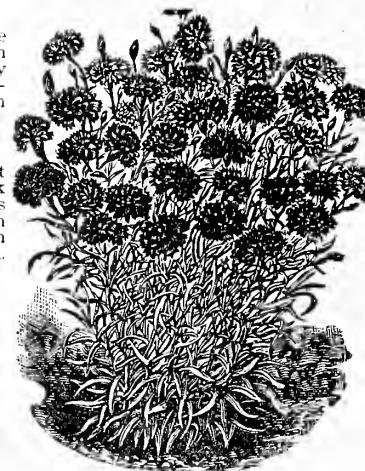
GERANIUM

GOOD VENTURE.—A greatly improved strain of geranium seed grown by a specialist for our trade; easily raised from seed, which will frequently reward the cultivator with charming new varieties. Plants from seed started early in the house bloom the first summer in the garden. Plants grow rapidly, are strong and thrifty. Pkt. (about 40 seeds), 15 cents.

CHOICE MIXED.—This seed saved from nice varieties and mixed. Pkt. 10c.

GRASS PINKS*(Dianthus plumarius.)*

The hardy and pretty clove-scented flowers so much loved by our grandmothers. Their fragrance quickly noticed in passing yards where grown. There has been quite a call for these for several years. Colors range from pure white to dark pink, mostly a clear, delicate pink. A hardy perennial, fine for borders. Double and single mixed. Pkt. 10c; $\frac{1}{4}$ oz. 30c.



GRASS PINKS

HOLLYHOCKS

No garden flower is more showy or admired. Start seeds in a box in the house in February or March; about May 1st transfer to a permanent place in the garden. Will produce elegant spikes.

EVERBLOOMING ANNUAL.—A most showy flower for massing, borders and backgrounds. Started in the house in March or April and set out in May it blooms in July. Blooms until killing frosts in fall. Sown in the open ground in May it blooms in August. Of vigorous growth, from 5 to 8 ft. high, and stalks are fairly loaded with large flowers, sometimes 5 inches across. Colors, crimson, canary, yellow, pink, white, maroon, black, scarlet, etc., some beautifully veined and marked; double, semi double, single. Pkt. 10c; $\frac{1}{4}$ oz. 35c; oz. \$1.

CHATER'S PRIZE DOUBLE MIXED.—Magnificent double flowers 3 to 4 in. across, of the brightest colors; flowers quite as beautiful and perfect as those of the camelia, massed completely around spikes. A mixture of all colors and shades. Pkt. 10c; $\frac{1}{4}$ oz. 50c; oz. \$1.50.

DOUBLE MIXED IN SOLID COLORS.

—White, yellow, pink, and bright red. Either color, pkt. 10c; 1 pkt. of each of the four colors 30c.

ALLEGHENY MAMMOTH FRINGED.

—An entirely distinct variety. Flowers are single, double and semi-double, of fine form and rich colors. Splendid for borders or the hardy garden. Pkt. 5c.

FINE MIXED.—Good variety. Pkt. 5c; $\frac{1}{4}$ oz. 25c; oz. 75c.

GAILLARDIA

The Blanket Flower. Exceedingly beautiful annuals, making very showy plants, 1 to 2 feet high. Grown in mass are especially effective.

PERFECTION.—Improved sort, producing a very double flower, round as a perfect ball, in most varied and pleasing colors. Flowers are borne on long, slender stems and when cut keep for over a week. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.

GRANDIFLORA.—A splendid new perennial variety, with very large flowers, dark crimson centers, marked with rings of many brilliant colors; makes a nice showing in the yard. Pkt. 10c; $\frac{1}{4}$ oz. 20c; oz. 50c.



GAILLARDIA GRANDIFLORA

GYPSOPHILA

Delicately pretty little flowers, sometimes called "Baby's Breath" or "Angel's Breath." Graceful and easily grown in open ground.

ELEGANS.—Mixed colors. Pkt. 5c.

PANICULATA.—White. Pkt. 5c.

HIBISCUS

Of easiest culture, with large, exceedingly showy blossoms. Hardy annual, 2 feet high.

CRIMSON EYE.—A robust grower; dark red stems and foliage. Flowers often measure 20 inches in circumference, pure white, with large spot of deep velvety crimson in center. It blooms first year from seed and succeeds anywhere. Pkt. 10c.

GOLDEN BOWL.—Enormous flowers 5 to 6 inches across, canary color, with large, black center. Pkt. 10c.

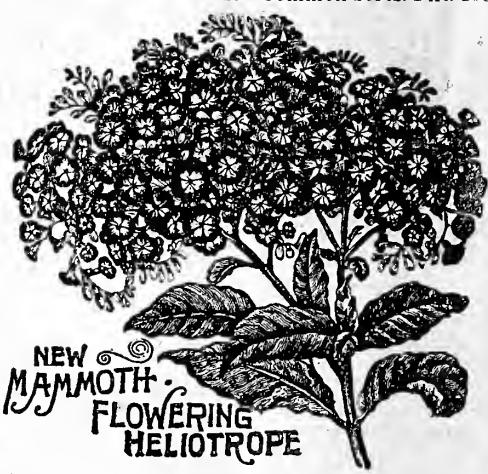
MEHAN'S MARVEL WALLOW.—A magnificent new strain of hardy hibiscus producing wonderful flowers 8 to 10 in. in diameter. Colored from pure white to fiery red. Splendid for permanent planting. Easily grown from seed. Pkt. 10c; $\frac{1}{4}$ oz. 40c; oz. \$1.

HELIOTROPE

A great favorite with all lovers of flowers for their beauty and fragrance; are well suited for beds or borders, where they will bloom in summer and may then be carefully potted and cut back for winter blooming.

CALIFORNIA MAMMOTH.—A grand new variety producing immense flowers. Pkt. 15c.

MIXED VARIETIES.—Common sorts. Pkt. 10c.

**LANTANA**

BRAZILIAN BEAUTY.—Specially fine strain consisting of a mixture of choicest flowered sorts. Pkt. 10c.

MIXED COLORS.—Greenhouse perennial. Makes fine bedding or pot plant; easily grown from seed. Pkt. 5c.

LARKSPUR

One of the most useful of annual flowers for beds or borders or for the informal garden. Flowers are borne in compact spikes, color red, white and blue, and are showy and desirable in any situation. Sow early in open ground.

DWARF ROCKET.—Grow about two feet in height. Mixed colors. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.

TALL ROCKET.—Three to four feet high, adapted to either borders, beds or among perennial plantings. Pkt. 5c; $\frac{1}{4}$ oz. 15c;

PERENNIAL LARKSPUR

BUTTERFLY.—A distinct variety, growing about 18 inches high, with fine feathery foliage, and producing freely spikes of large blossoms of intense gentian blue. Pkt. 10c.

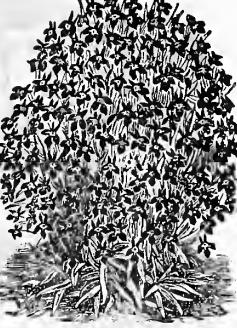
GOLD MEDAL HYBRIDS.—A splendid strain. Immense spikes 2 to 3 feet, with large flowers mostly of light blue shades. Pkt. 15c.

ELATUM HYBRIDIUM.—The perennial larkspurs are most showy and useful in permanent plantings, as they produce splendid spikes of flowers all summer. Perfectly hardy, blooms first year if sown early. Mixed colors. Pkt. 10c.

LINUM

GRANDIFLORUM RUBRUM.—(Scarlet Flax.)—A most showy annual for flower beds and masses; brilliant crimson scarlet flowers. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

PERENNIAL.—A beautiful hardy perennial sending up numerous stems, clothed with a small, almost hair-like foliage. Pkt. 5c, $\frac{1}{4}$ oz. 15c; oz. 50c.



LOBELIA

LOBELIA

A favorite where blue color is desired among low growing plants. Harmonizes nicely with Alyssum or Portulaca for borders. Suitable for rockeries or raised beds. Of easiest growth and spreads rapidly.

ERINUS.—A handsome trailing annual with blue flowers. Excellent for vases and hanging baskets. Pkt. 5c.

COMPACTA.—A dwarf variety. Flowers darker hue than above and cover plant; fine for carpet bedding or border. Pkt. 10c.

HOME FLORICULTURE

A book for amateur flower growers
Tells how to care for field and house plants.
Contains 112 pages with numerous illustrations.
Price in paper covers, 25 cents.

**MARIGOLD**

A general favorite for planting in mixed beds and informal gardens, as they produce such great numbers of brilliant colored flowers that they are always a bright spot wherever planted.

AFRICAN.—This old favorite has been greatly improved in size and doubleness of its flowers. Double mixed. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 30c.

DWARF FRENCH.—Double mixed colors. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 30c.

LEMON QUEEN.—A charming new variety producing large bell-shaped flowers of clear, lemon or canary yellow color, making them closely resemble large double yellow dahlias, only produced more abundantly on longer stems. It blooms early and continuously. Pkt. 5c.

ELDORADO.—Immense flowers, 9 to 14 inches around; double; primrose, lemon, orange and golden shades. 3 feet high. Pkt. 5c.

MYOSOTIS, OR FORGET-ME-NOT

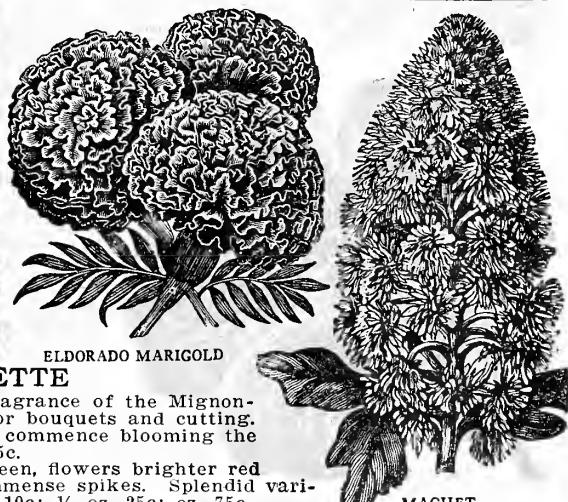
The dainty little blue Forget-Me-Not is always appreciated, as it always involuntarily forces to our mind kindly remembrance.

PALUSTRIS.—True Forget-Me-Not. A perennial. Blooms first year from seed. Pretty plants with neat little star-shaped blue flowers. Pkt. 5c.

VICTORIA.—The best variety for pot culture. Of dwarf, globular habit; beautiful sky-blue flowers with center double. Pkt. 5c.



NICOTIANA



ELDORADO MARIGOLD

MIGNONETTE

SWEET SCENTED.—The fragrance of the Mignonette makes it indispensable for bouquets and cutting. Sow seed early and they will commence blooming the first of June. Pkt. 5c; oz. 15c.

GOLIATH.—Folage rich green, flowers brighter red color than any other sort. Immense spikes. Splendid variety of sweet fragrance. Pkt. 10c; $\frac{1}{4}$ oz. 25c; oz. 75c.

ALLEN'S DEFIAENCE.—Valuable variety with mammoth spikes 12 to 15 inches long, more fragrant than any other. Florets of immense size and the cut flower often keeps three weeks. Pkt. 10c; $\frac{1}{4}$ oz. 20c; oz. 60c.

MACHET.—Makes a pretty and fragrant pot plant. Distinct variety of great merit. Vigorous dwarf growth with very large spikes of deliciously scented red flowers. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

NICOTIANA

AFFINIS.—Plant is covered with large, white, star-shaped flowers which, after being cut, remain perfect a week. A few plants perfume the whole garden. Pkt. 5c.

SANDERAE HYBRIDS.—Beautiful rosy carmine color and blooms freely. These new hybrids have also various shades of purple, pink, red, salmon, violet and white. Grows about 2 feet high, branches freely and loaded with flowers open all day. Sow seeds early in the house and transplant in May to open ground. Mixed colors. Pkt. 10c.

NIGELLA (Love in the Mist)

MIXED COLORS.—Hardy annuals about 1 ft. high; fine cut leaves and handsome flowers. Blooms early. A very pretty flower. Double flowers, blue white and purple, beautifully veiled with feathery, delicate foliage. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 25c.

MISS JEKYLL.—A large and profusely blooming variety with bright sky-blue flowers and fine fern-like foliage. Taller than most kinds. Pkt. 10c; $\frac{1}{4}$ oz. 20c; oz. 60c.

OENOOTHERA (Evening Primrose)

Blossoms fully expand only toward and during evening. Three to four inches across. A hardy annual. Mixed white and yellow. Pkt. 5c.



MISS JEKYLL NIGELLA



CAPRICE

CLIMBING NASTURTIUMS

MADAM GUNTER'S HYBRIDS.—Climbers and free, continuous bloomers. Color of flowers is most gorgeous, ranging from white through all the shades of pink, red, carmine, crimson, salmon, golden yellow to deepest brown and maroon—nearly black—all striped, shaded and blotched in an indescribable manner. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.

JUPITER OR SUNLIGHT.—Attracts instant attention. The flowers measure $3\frac{1}{2}$ to $3\frac{1}{2}$ inches in diameter, the petals $1\frac{1}{2}$ inches across. Blossoms have a most beautiful crinkled, crepe-like look; color is a splendid, rich, brilliant yellow. Pkt. 10c, oz. 35c.

NAPOLEON III.—Beautiful climbing variety with golden yellow flowers striped with rosy scarlet. Pkt. 10c, oz. 30c.

TALL VARIEGATED LEAVED.—Each leaf variegated in a striking manner and this variegated foliage in contrast with the many different shades and markings of the flowers produces bewildering beauty of mingled colors that will delight the eye. Mixed colors. Pkt. 5c, oz. 25c.

TALL VARIETIES MIXED.—A good mixture of colors and types of the climbing class. Our prices are very low this year as the crop is very short everywhere. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. \$1.00.

OUR STOCKS OF NASTURTIUM SEED ARE GROWN WITH GREATEST CARE, AND ARE THE BEST YOU CAN PROCURE.

NASTURTIUMS

These may well be classed among our most showy and handsome annuals. They are of very easy culture, and make a continuous show of bloom. The following are the best varieties:

AURORA.—A magnificent variety. Plant forms a perfect globe literally covered with flowers, hiding the foliage when in full bloom. Deep chrome yellow, lower petals blotched with purplish carmine; finely marked with bright carmine veining. Pkt. 5c, oz. 25c.

BEAUTY.—An extra fine dwarf variety. Handsome scarlet flowers splashed with canary yellow. One of the most attractive. Pkt. 5c, oz. 25c.

CHAMELEON.—The flowers of this new Tom Thumb nasturtium are colored crimson, gold and bronze, bordered and flamed, changing hue almost daily, hence named "Chameleon." Pkt. 5c, oz. 25c.

EMPEROR OF INDIA.—Dwarf, bushy habit, the leaves a dark, purplish blue color, making a suitable background for the brilliant crimson-scarlet flowers. Its profusion of bloom and richness of color are remarkable. Pkt. 5c, oz. 25c.

GOLDEN QUEEN.—Foliage of clear, bright yellow color. It is of dwarf, compact habit; flowers yellow. Pkt. 5c, oz. 25c.

KING THEODORE.—Darkest color in nasturtiums, deep scarlet maroon. Pkt. 5c, oz. 25c.

LADYBIRD.—Dwarf, neat, compact habit of growth. Flowers rich golden yellow, each petal barred with bright ruby crimson. A most lovely blossom. Pkt. 5c, oz. 25c.

PEARL.—Charming dwarf white sort. Pkt. 5c, oz. 25c.

PRINCE HENRY.—A beautiful flower of light yellow, marbled and striped with bright scarlet. Pkt. 5c, oz. 25c.

IMPERIAL MIXED.—Includes about twenty of the best dwarf varieties, both American and foreign. They are so selected that the colors harmonize beautifully and delight flower lovers. Of neat, compact habit of growth, and bloom freely when planted in beds, producing a mass of colors. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.00.

DWARF LILIPUT.—Distinct new strain of very dwarf, compact growth that originated from the tall *Trapeozium Lobianum*. Of smaller size than the well-known Tom Thumb nasturtium, closely compact in form, while the flowers are rounded, light green leaves are smaller in size. Flowers show many new and beautiful colors. Pkt. 5c, oz. 25c.

DWARF VARIEGATED LEAVED.—A splendid new type of dwarf nasturtium offered as presenting the most varied and divergent coloring. Not only are the flowers of the many shades and brilliant hues of the ordinary sorts but the foliage by the mottled and striped markings of green, white and golden yellow, afford an additional range of beauty. Pkt. 10c, oz. 35c.

IVY LEAVED DWARF MIXED.—Charming new type of nasturtium differing in foliage from the ordinary kinds, but retaining the same gorgeous coloring and profusion of bloom. Pkt. 10c, oz. 40c.

GOLDEN BLOTTCHED.—Unique and beautiful foliage, the green leaves being blotched with bright golden yellow in such manner as to present a pleasing and attractive appearance. Pkt. 5c, oz. 25c.

GOLDEN MIXED.—A mixture of many shades and markings of the yellow leaved varieties, offering a harmonious blending of bright colors. Pkt. 5c, oz. 25c.

DWARF VARIETIES MIXED.—A nice mixture of colors of this free blooming class. We grow large quantities and can make a low price. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c.



IMPERIAL MIXED

SPECIAL NASTURTIUM OFFER

16 DWARF KINDS

One pkt. of each of dwarf sorts named in above list for 75 cents, postpaid.

10 CLIMBING KINDS

One pkt. of each of climbing sorts named in list below for 60 cents, postpaid.



KALEIDOSCOPE.—Some are of clear yellow, orange, pink and creamy white, others are blotched, striped or bordered with rich contrasting shades. Of strong, vigorous growth; can be grown on the ground or trained upon a trellis. Specially suited for growing over low stumps, fences or rockery. Produces immense number of flowers. Pkt. 10c, oz. 30c.

CAPRICE.—A charming novelty; flowers changeable colors, a single plant often showing a dozen different colors or markings. Pkt. 10c, oz. 35c.

KING OF THE BLACKS.—A very handsome climbing sort with flowers of very rich dark brown, almost black. Pkt. 10c, oz. 35c.

IVY LEAVED PERFECTION.—This unique and most beautiful climbing nasturtium is different from others in foliage and flowers. Plants of running growth, star-like leaves of rich green veined with white. Flowers are of medium size, intense glowing scarlet in color, and of most distinct form. Pkt. 10c, oz. 35c.

SPITFIRE.—A most brilliant new variety of bright cardinal red. Most glowing color. Pkt. 10c, oz. 35c.



LOVELY PANSIES

Pansies are a specialty with us, and we use the greatest care in growing and importing the best strains. Circular giving full directions for growing pansies sent free if requested. Packets contain 100 to 250 seeds.

PRETIOSO.—(No. 3.)—A new strain of the world's best grower, imported only by us, and offered to our friends under special arrangement. It contains widest range of colors, the most diversified markings, and the most velvety substance of any mixed pansies now offered by the seed trade. They are great, large, fine blooms, of satiny finish and of brightest colors, which really shine with lustre. The plants have been bred up for robust habit and heavy growth. It requires strong plants to produce large blooms and lots of them. Nature alone brings forth the beauty of the flowers, and you must grow the Pretioso pansy to realize its matchless splendor. Pkt. 15c; $\frac{1}{4}$ oz. \$2.50; oz. \$8.00.

FANCY STRIPED.—(No. 1.)—A beautiful strain from Belgium, with very large flowers striped and mottled in various tints on contrasting ground. A favorite because of its great beauty. Our illustration is not adequate as the real blossoms are wonderful in their brilliancy. To those who seek striking beauty in flowers we commend this Belgian pansy. Pkt. 15c.

NEW RAINBOW.—(No. 4.)—We consider the name appropriate owing to its beautiful iridescent colors. In a good-sized bed are a hundred different varieties but not a poor one nor an inferior. Flowers of large size and perfect in form, nearly circular and have a rich, velvety appearance; will delight "pansy fanciers." Pkt. 20c: $\frac{1}{4}$ oz. \$4.00; oz. \$12.00

AMERICAN GIANT.—(No. 6.)—A prominent pansy specialist in years of careful, painstaking labor in hybridizing and selecting a strain of pansies which would be superior to any in existence, has produced this extraordinarily fine strain which is of such strong, robust, luxuriant growth and produces such magnificent immense flowers, almost a superior race of pansies. Comprise practically all shades, colors and markings known in pansies including the Giant Bugnots, Cassier's and the large-flowered sorts from France, England, Holland and other countries. Also a strain of curled and ruffled pansies which appear double. Pkt. 15c, $\frac{1}{4}$ oz. \$2.50, oz. \$8.00.

FINE MIXED.—Consists of many good sorts. Pkt. 5c, $\frac{1}{4}$ oz. 35c, oz. \$1.00.

ATTRACTIVE OFFER

An opportunity to procure the choicest types of pansies separately, or if you mix them yourself you are assured of the very widest range.

One packet each of the 8 illustrated mixtures, the finest assortment ever offered, \$1.00.



NAMED VARIETIES OF GIANT PANSIES

The varieties listed below are all of the giant flowered type; will produce fine blooms. They are splendid for pattern beds and borders or for massing.

AZURE BLUE.—A very fine shade of sky-blue. Pkt. 10c.

FIRE KING.—Distinct and striking. Upper petals bright red, of really a fiery shade, warranting the name. Pkt. 10c.

GOLDEN YELLOW.—Best of yellow varieties. Fine as a contrast. Pkt. 10c.

KING OF BLACKS, or Faust.—Flowers very dark, almost black. Pkt. 10c.

LORD BEACONSFIELD.—Fine large flowers of deep purple violet, shading off in the petals to a white hue. Pkt. 10c.

MAHOGANY.—A beautiful, rich, mottled mahogany color. Pkt. 10c.

PEACOCK.—Named Peacock because upper petals of flower resemble in color the peculiar shade seen only in feathers of the peacock, a beautiful ultra-marine blue. Petals edged with a thin white line, within which is purplish crimson passing into a rich central blotch of blue, shading to black. Pkt. 10c.

QUADRICOLOR, or Pheasant's Eye.—Upper petals sky blue edged with violet; lower petals spotted and marbled. Pkt. 15c.

SNOW QUEEN.—Flowers of a delicate, pure satiny white, handsome and attractive. It shows finely in beds or for cut flower work; and is beautiful for cemetery use. Pkt. 10c.

SPLENDID PETUNIAS

No garden is complete without a bed of elegant petunias. They commence flowering early and continue a mass of bloom throughout the whole season, until killed by frost; are easily cultivated, requiring rich soil and a sunny situation. Of late the single striped, mottled and double varieties have been greatly improved, and the cut gives but a faint idea of their great variety and beauty. Double varieties require care and should be started in the house.

ROSY MOON.—A beautiful new petunia of clear rosy pink color, showing great beauty in the informal garden. As easy to grow and as free blooming as the ordinary types. Pkt. 15c.

EMPEROR.—The largest petunias in the list. Monstrous flowers fully five inches in diameter of the bell, and of unsurpassed colors and markings. Very fine for massing or sowing in wild borders. Pkt. 15c.

GIANT FANCY.—The flowers are exquisitely ruffled or fringed on edges, and of enormous dimensions (4 to 5 in. across), unlimited varieties of colors, markings, veining, blotchings and stripings, in the most grotesque and beautiful combinations; with deep throats of carmine yellow, white, black, green or maroon, running off into intricate veins. Some colors are rich and gorgeous, others are of lovely delicate shades. Produces very little seed and will always be high in price. Worth double its weight in gold. Pkt. 25c.

DOUBLE INIMITABLE.—Splendid mixture. Our seed is the best imported stock, and will produce about 25 per cent of fine double flowering plants. Pkt. 25c.

LITTLE PET.—(Howard's Star).—One of the prettiest little flowers we saw in the thousands of acres of beautiful flowers in France and other countries of Europe were these small flowered, compact growing, free blooming petunias. Round, bushy little plants about 8 in. high, covered for months with beautiful flowers which are widely open and always look fresh, bright and beautiful that the ladies "just love them." Most of the flowers have a distinct five-pointed star in the center and they are of a great variety of colors. Pkt. 10c.

GRANDIFLORA MIXED.—Very large, elegant flowers; a great improvement and fully twice the size of the old sorts, with most beautiful shades of crimson, white, rose, maroon, etc., blotched, striped, veined, marked and fringed. Per pkt. of 200 seeds 15c.

FINE MIXED.—Best of older varieties. Extra fine striped and blotched sorts. 1 kt. 5c; $\frac{1}{4}$ oz. 35c; oz. \$1.00.



FANCY FLOWERED PETUNIA

PALMS

These for centuries past have been exclusively for the rich, the plants usually selling at \$3.00 to \$100.00 each. It is now known, however, that they are easy to grow from seed. Directions printed on packets.

PHOENIX DACTYLIFERA.—Native of northern Africa; beautiful for pot culture, and very hardy. This palm produces the date of commerce. Pkt. of 10 seeds 10c.

WASHINGTONIA FILIFERA.—It stands dust, dry air and lack of sunshine. Its fan-shaped leaves fringed with long thread-like filaments. Pkt. of 12 seeds 10c.

UMBRELLA PALM.—(Cyperus).—See description and illustration on page 90. Pkt. of 100 seeds 10c.

LATANIA BORBONICA.—This is the typical palm, is more largely used than any other; of strong and healthy habits; very desirable for house culture. Pkt. 6 seeds 10c.

CHAMAEROPS EXCELSA.—One of the very best plants for house culture in cool climates, and standing ill usage remarkably well. Pkt. of 10 seeds 10c.

SPECIAL GRAND OFFER

One packet of each of the five elegant varieties of Palms mentioned above for only 40c.

PLANT OF DOUBLE PORTULACA

FLOWER OF SINGLE PORTULACA

BRILLIANT PORTULACA

DOUBLE MIXED.—This old favorite is one of the brightest blossoms in the entire list and makes a lovely little plant to cover up the bare spots in beds of taller growing plants. The flowers are double as a rose, brilliant with many shades of color, white, yellow, crimson, scarlet, pink and all blooming at mid-day and of afternoons. The dainty blossoms are splendid to add the little touch of color among the fruits on the dinner table. Pkt. 10c; $\frac{1}{4}$ oz. 50c.

GRANDIFLORA SINGLE MIXED.—An old favorite sometimes known as rose moss. It forms a brilliant, striking bed of color on bright sunny days, and blooms brightest in the mid-day hours when other flowers are drooping. Very dwarf, low-growing plants, forming a mat on the ground. We offer a splendid mixture. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

PENTSTEMON

FINEST MIXED.—Hardy perennial; sown early will bloom first year. Graceful growth; many spikes of Gloxinia-like flowers 2 ins. across; crimson, white, rose, purple, etc., beautifully edged and marked; blooms June to October. Give rich soil and good culture. Pkt. 10c.

PYRETHRUM

GOLDEN FEATHER.—Beautiful golden-leaved foliage plants of special value for borders and ribbon beds. Pkt. 5c.

ROSEUM HYBRIDUM.—Large flowering perennial, flowers resembling cosmos and varying in colors from light pink to deep red with large yellow center in each. Splendid for long-keeping cut flowers. Pkt. 10c.

PENTSTEMON

IT IS DESIRABLE TO PURCHASE DOUBLE PETUNIA PLANTS IF YOU WANT THEM ALWAYS TRUE TO NAME AND COLOR.



LATANIA BORBONICA PALM



PHLOX DRUMMONDI

If we could have but one flower for our garden, that one would be the Phlox. Its brilliant shades of color, ranging from clear white to brilliant scarlet, make an almost dazzling show; continually in bloom.

All varieties which we offer, except the common mixed, are of the large-flowering grandiflora class.

The crop of phlox seed is very limited this season. Such as we offer is of the very best quality.

FIREBALL.—(See Cut No. 1)—Splendid for a showy bed. Color is brilliant, dazzling scarlet, making a beautiful show. Growth is dwarf and compact so that it is fine for bed effect when sown thickly. Pkt. 10c; $\frac{1}{4}$ oz. 75c; oz. \$3.00.

GRANDIFLORA ALBA.—(See Cut No. 4)—Fit companion for Fireball. Flowers are very large, pure white in color and constantly in bloom. A few plants of white always show up well in beds of mixed colors or among darker shades. Pkt. 10c; $\frac{1}{4}$ oz. 75c; oz. \$3.00.

PERENNIAL MIXED.—Splendid hardy plants which bloom continuously after the second year. Pkt. 10c.

FRINGED MIXED.—(Type shown in Cut No. 7)—Very attractive. The flowers are of the most velvety colors and handsomely fringed. Pkt. 25c.

MIXED VARIETIES.—Mixtures of common sorts. Covers a wide range of color and will make a splendid show. One of the most satisfactory items in the catalogue. Pkt. 10c; $\frac{1}{4}$ oz. 75c; oz. \$2.50.

GRANDIFLORA MIXED.—Large-flowering strains chosen with great care for many years; ideal flower of immense size and beauty unsurpassed. Colors from white to nearly black, including pink, red, violet, crimson, purple, yellow, blue, scarlet and brown, striped and blended in an indescribable manner. Pkt. 10c; $\frac{1}{4}$ oz. 75c; oz. \$3.00.

PERENNIAL POPPIES

ORIENTAL HYBRIDS.—For brilliancy of color, nothing equals these Oriental Poppies. The flowers are of enormous size, often measuring over 6 inches in diameter; colors range from soft flesh and rose to the most brilliant dazzling scarlet and richest maroon purple. Perfectly hardy perennials, living through winter with but little protection, increasing in size and beauty every year. Pkt. 10c.

ICELAND.—Flowers the first year from seed. Colors from purest white to deepest orange scarlet; delicious fragrance. Pkt. 10c.

POPPIES

This grand old flower has kept pace with the march of improvement and now surprises us with its new forms, new sizes and new colors. The varieties below are annuals, which are always popular because they are so easy to grow and so brilliant and attractive in any situation. Remember the fields of France, where myriads poppies bloom.

ROSY MORN.—Is really superb. Flowers are extremely double and of good size, forming perfect balls of unique and beautiful shade of rose—a new and distinct color in poppies; of easiest possible culture, belonging to the annual paeony flowered section. Pkt. 10c.

SHIRLEY.—(Lady Poppies)—A new single. In color from the purest white through the most delicate shades of rose, pink and carmine to the deepest crimson. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

AMERICAN FLAG.—Flowers extra large, very double, snow white, bordered with scarlet, thus making an extra choice, very showy variety, that should be popular. Pkt. 5c.

DOUBLE CARNATION.

Splendid assortment of best double carnation flowered sorts. The most popular variety Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.

SANTA ROSA MIXED.—Improved from Shirley poppy; unusually large flowers of remarkably clear colors, including new striped salmon and blush shades. Petals beautifully crumpled. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

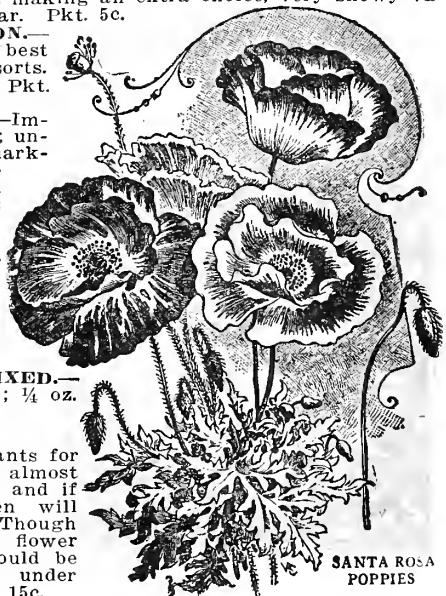
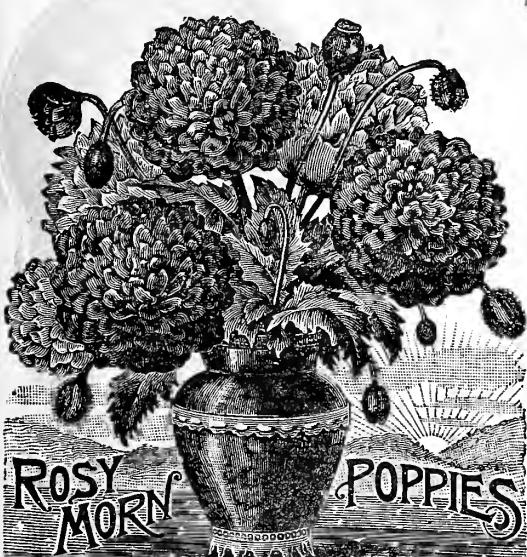
PAEONY FLOWERED.

—Is a robust variety growing about 2 ft. high; bears very large flowers, round, smooth, double, and of exceeding brilliancy. Mixed colors. Pkt. 5c.

ANNUAL VARIETIES MIXED.—Single and double. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.

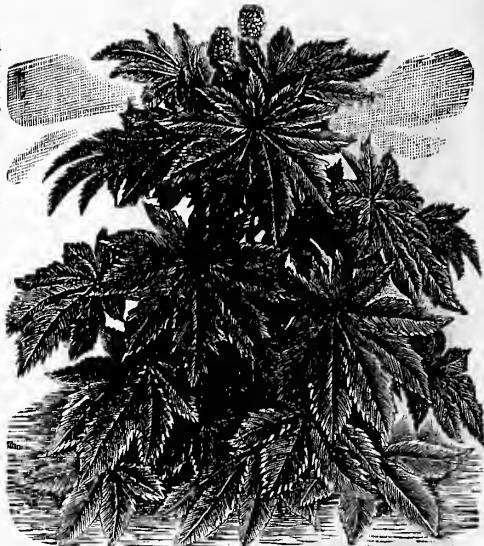
PRIMROSE

CHINESE.—Desirable plants for growing indoors, being in almost constant bloom all winter, and if transferred to the garden will bloom nearly all summer. Though perennial, new plants will flower more freely, and seed should be sown every year. Start under glass. Mixed colors. Pkt. 15c.



RAINBOW CORN

(Striped Japanese Maize).—Offered as a novelty by some seedsmen. An ornamental foliage plant of rapid growth, giving immediate effect, and attractive in any garden. Grows 5 to 6 feet high and has alternate foliage, the leaves being very long and 2 to 3 inches wide. Variegation does not begin to show until the fourth or fifth leaf, when leaves become striped with broad bands of white, changing soon to narrow stripes of alternate clear white and brightest green, occasionally showing faint tinges of pink or rose color at the edges. The leaves are waxy and gracefully curved. Desirable for groups or ribbon beds, or back border to a lawn. Illustration which is shown herewith does not do it justice. Pkt. 5c; oz. 15c.



FAIRY ROSES

These remarkably beautiful little roses are very easily grown from seed. The roses are only about an inch across, usually semi-double, and seldom single; they are borne in large clusters and are of many colors. What is most remarkable, these Fairy Roses grow only 10 to 15 in. high, commence blooming a few weeks after seed is sown and continue from May until frost. Nice for pot plants for winter blooming. Pkt. 10c.



STRIPED
JAPANESE MAIZE

SALPIGLOSSIS

Strong, bushy plants about 18 inches high, bearing throughout the season large flowers 3 to 4 inches across, of many beautiful colors. Sometimes called Painted Tube Tongue.

NEW VARIEINED.—The surface is soft and velvety and wealth of color marvelous. The colors range from pure white to dark yellow, dark red and purplish black, including light and dark blue, velvety plum color, maroon, crimson, dark brown, golden and lemon yellow, white, dark purple, black, brilliant scarlet, with all the shades between beautifully veined and mottled. Blooms all summer and till frost. Pkt. 10c.

SALVIA

SPLENDENS.—One of the most brilliant of flowers; it thrives in any light, rich soil; often called flowering sage. Free bloomers. Brilliant scarlet. Is very fine. One of the most satisfactory bedding plants. Pkt. 10c; $\frac{1}{4}$ oz. 75c.

MRS. C. N. PAGE.—Dwarf, free blooming sort. Much earlier than Splendens and brighter color. Nothing makes such a brilliant show as a bed of Salvia; is especially fine for bordering canna beds. Introduced by us. Pkt. 15c; $\frac{1}{4}$ oz. \$1.00.

SCABIOSA

LARGE FLOWERED MIXED.—One of our handsomest border plants, producing in great profusion very double flowers in a variety of shades and colors; splendid for table bouquets, etc.; rapidly becoming popular because of its striking beauty in form and color. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.



SENSITIVE PLANT

Very pretty and curious plant, its leaves closing when touched. Seeds start slow and it is best to start them in boxes; cover shallow and see they do not dry out; it makes a good house plant for the winter and pleases the children. Pkt. 5c.

SCABIOSA

MRS. C. N. PAGE SALVIA

SHASTA DAISY

ALASKA.—Can be grown out of doors where it is not cold enough to kill oak trees. Perennial, blooming better and more abundantly each season. The flowers are extremely large and graceful, averaging about 4 inches in diameter, with three or more rows of petals of the purest glistening whiteness, and borne on single, stiff, wiry stems nearly two feet long. Pkt. 10c.

STOCKS

Sometimes called Gilliflowers. Easily grown, and they deserve a place in every garden. Give good, rich soil. They reward good treatment with remarkable pyramids of bloom.

PERPETUAL WHITE.—(Princess Alice or Cut and Come Again.)—Strong growth, of fine branching habit, and if sown early will bloom from May to November. Flowers large, pure white. Pkt. 15c.

PERPETUAL MIXED.—A mixture of colors of the continuous blooming types of perpetual stocks. Sown in March or April they begin flowering in July and continue until frost. Pkt. 10c.

EARLY LARGE FLOWERING DWARF.—Very popular. Our mixture contains a great variety of colors. Pkt. 10c; $\frac{1}{4}$ oz. 40c; oz. \$1.00.



SHASTA DAISY



PERPETUAL WHITE STOCKS

RICINUS CAMBODGIENSIS

RICINUS

Castor oil plant. Stately foliage plants. Make a very handsome appearance on the lawn singly; fine for clumps or ornamental hedges. Said to keep out moles.

CAMBODGENIS.—A beautiful plant growing to a height of 8 feet, of most stately, majestic, tropical appearance. Has large palm-like leaves of darkest reddish maroon, covered with a bright bronzy luster, while the main stalk and leaf stems are ebony black. Leaves have large red veins which add to the beauty. Seed pods fiery red. Unexcelled as a decorative plant for lawn. Pkt. 5c; oz. 20c.

ZANZIBARENSIS.—Grows to a height of 12 to 14 feet, with leaves 2 to nearly 4 feet across. A handsome specimen plant for lawns. The different varieties included in our mixture have light and dark green leaves and some coppery bronze, changing to dark green, with reddish ribs. Pkt. 5c; oz. 15c.

SANGUINEUS TRICOLOR.—Blood red stalk; very attractive, especially stately in appearance, giving tropical effect in clumps or screens. Pkt. 5c; oz. 15c.

MIXED VARIETIES.—Mixtures of the above and many other choice sorts. Pkt. 5c; oz. 10c.

COMMON.—The ordinary Castor Bean of commerce. Pkt. 5c; oz. 10c; lb. 50c. Ask for price in quantity.

**SWEET WILLIAM**

SINGLE MIXED.—Hardy plants one foot high, of extreme richness and variety of color, and deliciously sweet-scented; for clumps or borders unsurpassed. Our mixture is the large flowered and contains beautiful colors and markings. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.

DOUBLE MIXED.—Grows same as preceding, but the florets are densely double and full centered. While beautiful, are not as popular as single-flowered. Pkt. 5c; $\frac{1}{4}$ oz. 20c; oz. 60c.

ANNUAL.—Quick growing type of Sweet Williams for the annual flower garden. A great range of color and markings make them attractive for solid beds or borders. Pkt. 10c.

ZINNIA

Strong growing, hardy and elegant plants, rivaling the dahlias in size and doubleness, while the colors are bright and varied and range from pure white to deep purplish crimson. Fine for hedges, beds or borders.

ROBUSTA GRANDIFLORA.—Given its name because of strong growth and large flowers. Grows 3 ft. high and produces flowers 5 in. across. In separate colors: white, yellow, orange, pink, scarlet crimson; or in mixed colors if preferred. Pkt. 10c; $\frac{1}{4}$ oz. 25c; oz. 60c.

One pkt. each six separate colors of Grandiflora Zinnia for 40c.

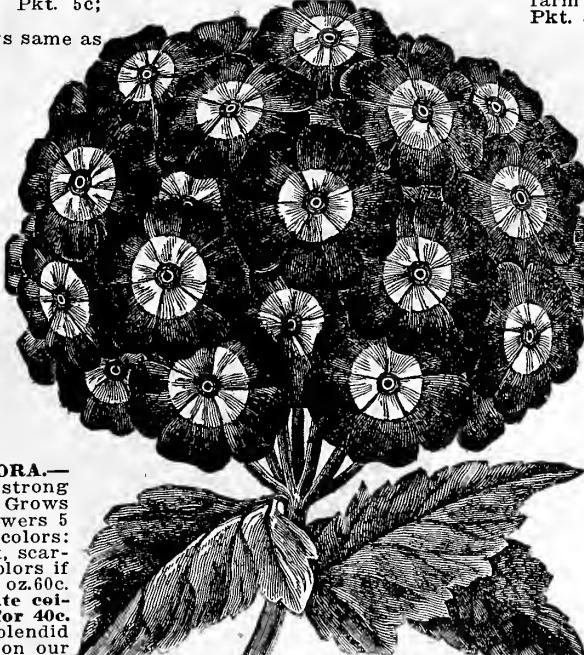
SPLENDOR.—This splendid strain of Zinnia is grown on our Altoona farms with special care. The finest colors and most splendid blooms and plants we have seen. Pkt. 10c; $\frac{1}{4}$ oz. 25c; oz. 60c.

NEW ZEBRA.—Beautifully and brilliantly striped with rich colors. There are always some plants which do not produce striped flowers. Very handsome. All colors mixed. Pkt. 10c.

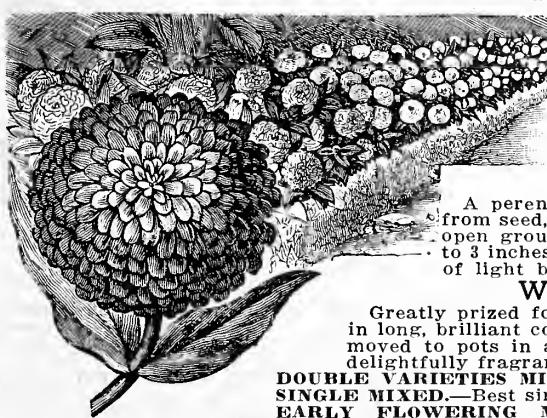
FINEST DOUBLE MIXED.—Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

CURLED AND CRESTED.—A most unique and charming sort with petals oddly curled and crested in fantastic contortions and graceful forms. Flowers are large, double, and peculiar shape of petal relieves the flower from stiffness. Many colors. Pkt. 10c.

PIGMY OR LILIPUT.—The acme of beauty and perfection in Zinnias. Plants are small and of bushy growth, each one bearing scores of beautiful little blossoms of most perfect shape and brilliant colors, from pure white to very dark orange purple, crimson and vermillion. Pkt. 10c.



NEW CENTURY MAMMOTH VERBENA



PIGMY ZINNIA

SUNFLOWER

Some varieties of this well known plant are very ornamental and effective in shrubby borders or as screens.

RAINBOW SUNFLOWER.—Grows in varying height from 5 to 8 feet, branching freely, and producing many blooms of different sizes. Colors range in shades of yellow, red and brown and are very striking. Pkt. 15c.

DOUBLE CHRYSANTHEMUM FLOWERED.—A dwarf variety growing 4 to 6 feet, producing beautiful double flowers, of unusual form. They were named because of their resemblance to the large yellow chrysanthemums which are so popular as fall flowers. Will give splendid results in clumps, masses or borders. Pkt. 10c.

PILLAR OF GOLD.—Originated on our own farms. A beautiful new double sunflower, growing about 4 feet high. Flowers borne on very short branching stems and are held closely to the main stalk, in such profusion that when in full bloom very little of the foliage is noticeable and at a short distance it seems a pillar of bright golden yellow. Pkt. 10c; oz. 25c.

EXCELSIOR BRANCHING.—This new plant, known as *H. Cucumerifolius Grandiflorus*, has a single flower about 5 inches across producing a pyramid of bloom. Pkt. 5c.

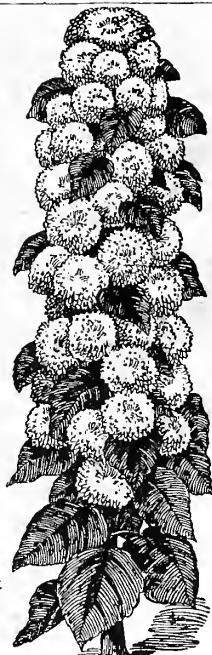
SILVER LEAVED.—A perfect pyramid. Grows 3 to 4 feet high. Leaves long and covered with long white hairs, giving a peculiar shining, silvery appearance. Flowers golden yellow, 3 to 4 inches across; small, dark brown centers. Pkt. 5c.

BABY.—(*Helianthus Perkeo*).—Two feet high, loaded with lovely Cosmos-like blossoms, of perfect shape and wide spreading petals. Rich, deep yellow with black center. Pkt. 5c.

PEERLESS MIXED.—A splendid assortment of fifteen of the best varieties grown together on our grounds. Includes some both curious and desirable. Pkt. 5c; oz. 15c.

MAMMOTH RUSSIAN.—Largest of all, showy and most profitable to grow for feeding purposes. Oz. pkt. 5c; lb. 25c.

WHITE BEAUTY.—A sunflower growing as large as the Mammoth Russian; seeds clear paper white. Very productive of seed. Also listed in farm seed department. Pkt. 5c; oz. 10c.



PILLAR OF GOLD SUNFLOWER

VERBENA

Deservedly a universal favorite. A constant bloomer, and if grown from seed has a sweet fragrance. Plant in boxes, or under glass in March, and transplant when a few inches high. In this way they bloom early.

BANNER VERBENA COLLECTION

Red, White and Blue.—One packet each of our national colors of seed from the mammoth type. This seed is from choice plants and the collection is one of our best offerings. Owing to the spreading habit of the plants you can have a large bed of beautiful flowers at very low cost. You can buy the plants if you prefer. See last catalogue cover.

**Seed Collection, 30 cents, postpaid
Plant Collection, 75 cents, postpaid**

NEW CENTURY MAMMOTH.—The most beautiful colors, largest flowers and largest truss, and will please everyone. Well grown flower truss measures over 9 inches in circumference while single florets are as large as a twenty-five cent piece; more vigorous growing than the ordinary sort. Pkt. 10c; $\frac{1}{4}$ oz. 35c; oz. \$1.00.

CANDIDISSIMA.—Large trusses of pure white flowers; beautiful. Pkt. 10c; $\frac{1}{4}$ oz. 40c; oz. \$1.00.

BLUE MIXED.—Desirable. Blue, purple and lavender sorts. Pkt. 10c; $\frac{1}{4}$ oz. 40c; oz. \$1.00.

DEFIANCE.—A true scarlet, large and extra fine. Pkt. 10c; $\frac{1}{4}$ oz. 35c; oz. \$1.00.

CHOICE MIXED.—From the finest foreign collection of named sorts. Pkt. 5c; $\frac{1}{4}$ oz. 20c; oz. 60c.

LEMON.—(*Aloysia Citriodora*).—The popular plant much prized for its sweet-scented leaves which retain their fragrance when dried and are therefore doubly useful. Pkt. 10c.

WAHLENBERGIA

A perennial plant blooming the first year from seed, which should be sown early in the open ground. Flowers are of large size, $2\frac{1}{2}$ to 3 inches in diameter, and of various shades of light blue, lavender and white. Pkt. 10c.

WALLFLOWER

Greatly prized for their exquisite fragrance. Grow in long, brilliant colored spikes of flowers. Plants removed to pots in autumn will produce abundance of delightfully fragrant flowers of many colors.

DOUBLE VARIETIES MIXED.—Pkt. 10c.

SINGLE MIXED.—Best single and semi-double sorts. Pkt. 5c.

EARLY FLOWERING MIXED.—Flowers early the first season. Per pkt. 5c.

GIANT FLOWERED SWEET PEAS

The sweet peas here offered are of the great-flowered or grandiflora class, and are grown for us by the best specialists in America. The stocks from which they are produced are not surpassed by anyone, and we know from the reported experience of our friends that the results from planting our sweet peas are most satisfactory. We ask only to be judged by results and solicit your orders with full confidence that you will be pleased.

1 There is a reason. We have discarded all poor and inferior sorts and offer what we know to be the cream of the list, chosen from personal inspection.

IMPERIAL MIXED.—Sixty of best sorts carefully selected so as to get the proper proportion of each color in assortment. Makes the choicest mixture ever offered. Illustration shows bunch of various colors and we are sure our customers will be pleased with them. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

CALIFORNIA GIANTS.—Tourists from the east are always greatly surprised and delighted with the Sweet Peas which bloom so freely in California. One of the best growers who has been growing Sweet Peas for us during the past twelve years and who devotes about fifty acres annually to their culture, has, during the past few years, been selecting seed from the specially large flowers and we now offer it in a splendid mixture. No matter what other flowers you grow, give these a trial. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.

NEW DOUBLE SWEET PEAS.—By hybridizing and selection, the new double-flowered Sweet Peas have been produced and they are not only beautiful but the flower is quite lasting. About half of the plants from this seed produce flowers which are double and semi-double. Our mixture contains all the best varieties yet brought out, white, rose, crimson, maroon, lavender, striped, etc. Try them. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.

GRANDIFLORA MIXED.—This is a mixture from the growers and is made from surplus stocks of varieties and seeds as are grown in trial plots together with the seeds from fields of mixed colors. Contains a wide range both of new and old varieties illustrated on this page.

Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.



Twenty Choice Named Varieties

AMERICA.—(No. 9.)—Clear scarlet on a white ground. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

AURORA.—(No. 6.)—Extra large flowers, are flaked and striped bright salmon on white ground. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60.

BLACK KNIGHT.—Rich glossy blackish maroon. Immense bold, attractive flowers borne in greatest profusion. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

DOROTHY ECKFORD.—(No. 7.)—The largest flowered white variety. Great bloomer. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

DAINTY.—(No. 3.)—Light blue on white ground, edged with deep violet. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

EARLIEST OF ALL.—Very early; a bright pink with white wings. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

EXTRA EARLY BLANCHE FERRY.—Earliest of all. A beautiful light rose and white. Delicately handsome. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

GOLDEN ROSE.—Pink, suffused light yellow. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

KING EDWARD VII.—(No. 11.)—A true giant-flowered variety; brighter than other dark varieties, in fact, the best dark red in existence. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

LADY GRISEL HAMILTON.—(No. 8.)—Light lavender with azure blue wings. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

LOVELY.—(No. 2.)—The most beautiful shades of soft shell-pink, shading to faint rose at outer edges. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

MRS. WALTER WRIGHT.—Of pinkish cream, changing to reddish purple; large. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

LOTTIE ECKFORD.—(No. 10.)—Standard rose, the wings primrose shaded and splashed rose. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

MONT BLANC.—Large white flowers, free blooming and the earliest of all whites. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

MRS. KENYON.—A decided novelty in Sweet Peas, being a very pretty large-flowered sort, of a handsome primrose or yellow color. An attractive new color. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

NAVY BLUE.—(No. 1.)—A great novelty; the darkest and truest blue of any variety. Free bloomer. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

OTHELLO.—A beautiful dark brown chocolate red self-colored. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

PRINCE OF WALES.—(No. 5.)—A bright, self-colored, deep rose flower of grand size and beautifully hooded form; frequently four on a stem. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

PRIMA DONNA.—A soft shade bright rose-pink, with deeper coloring in center. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

RAMONA.—(No. 4.)—Flower creamy white and striped and flaked blush pink. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

ROYAL PURPLE.—Striking dark flower. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

ROYAL ROSE.—Beautiful clear rose. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

*Circular how to
grow Sweet Peas
mailed free on
request*

CUPID MIXED.—Dwarf growth. Flowers are pretty and freely produced. Mixed colors. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c.

BUSH VARIETIES MIXED.—Of distinct upright growth, forming a bush instead of climbing; many colors. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.

PERENNIAL MIXED.—See page 76. Pkt. 10c, oz. 35c.

ORCHID FLOWERED SWEET PEAS

This is the latest and most lovely type of sweet peas, originating in England some years ago with the original variety now called Countess Spencer, and which have developed new colors and markings each succeeding season so that we now have quite a range of color. The distinguishing characteristics of the Spencer type is the wavy, orchid-like appearance of the blossoms. They are stronger, more robust in growth, with extra large flowers of exquisite, delicate beauty. We offer only a few of the many varieties in existence, choosing those which have become fixed in form and color and which will reproduce without deviation. It will be noted that with only a few varieties we offer you a beautiful display of varied colors. We have in our selections of the Spencer varieties followed our rule of accepting only such as will give satisfactory results. Crops of sweet peas are short everywhere and there is no prospect of low values for some time. Our prices should be much higher. We will protect our customers so long as our stock lasts.

AMERICA.—A dainty and attractive blossom of ivory white with distinct stripes of bright crimson. Form of the best Spencer type with large size with three or four lovely flowers on each stem. Selected for one of our list of the best because of its delicate beauty which will be appreciated by all who seek the best in sweet peas. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 80c.

BARBARA.—The flower is salmon color without markings or shading, and makes a remarkably attractive bouquet without any other color. It will harmonize well in mixtures either for plantings or with the many other shades of cut blooms. There are many varieties of varying shades of salmon color but we choose this for our list as the best of its type. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 80c.

ELFRIDA PEARSON.—One of the largest flowers yet introduced. It is an extremely vigorous grower and the blooms are held on long stiff stems which give them great substance and lasting quality. Flowers are borne four in cluster and often show double standards which adds greatly to their charm. Color is pink, of a most attractive and lovely shade, and we offer it as the best pink of the class. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 80c.

FIERY CROSS.—The most unique color in sweet peas. The standard is bright orange scarlet while the wings are rich orange cherry shade, making a flower of flaming color and unusually attractive.特别 brilliant in strong sunlight which it bears without scorching or fading. It is probably the most famous and popular sort. It adds in every situation the touch of scarlet which is so desirable. It is difficult to describe but the flower will amaze you with its beauty. Pkt. 15c, oz. 50c, $\frac{1}{4}$ lb. \$1.00.

FLORENCE MORSE.—This flower is a very delicate rose color, shaded a little darker pink at the edges. It is one of the best of the Spencer type, having large, open, wavy flowers, borne four on the stem, which are quite long. It is very similar to Countess Spencer except in the color which is of lighter shade. It fully equals the older sort in splendid qualities. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 80c.

KING MANOEL.—The finest type of Spencer form in size and manner of growth and will appeal to lovers of dark colored blossoms. It will not fail to attract the eye in any collection of sweet peas. Stems are long, strong, and carry three or four fine blossoms of deep, rich maroon. A strong, vigorous grower. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.00.

SPENCER MIXED.—This is not in any sense inferior, but is a choice mixture of the Spencer types and varieties. This mixture contains many sorts not named in our list. It is a chance to secure the Spencer type in varied colors at a reasonable cost. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

KING WHITE SPENCER.—(See illustration on this page.)—One of the finest types of the Spencer class and the best white variety. Flowers deeply waved and curled. Color pure white. Very vigorous and strong, with stiff, upright stems bearing three or four blossoms on each. Retain their freshness and purity after being cut. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.00.

PRIMROSE SPENCER.—This is a very fine, large blossom of rich, deep cream or primrose yellow throughout; both standard and wings being of solid color without trace of shading. Is undoubtedly the richest coloring and finest quality of primrose shade. Equally as finely waved as the other Spencers and of strong, robust character. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 80c.

Spencer Collection

12 Packets—12 Colors
\$1.00 Postpaid.

One packet of each of the choicest Spencers, as named and described on this page:

America
Barbara
Elfrida Pearson
Fiery Cross
Florence Morse
King Manoel
King White
Primrose Spencer
R. F. Felton
Royal Purple
Sunproof Crimson
Wedgewood Blue

One packet of each \$1.00.
One ounce of each \$3.00.

R. F. FELTON.—A splendid strong growing sort, of unusual vigor. Flowers are of great size, borne on immense strong stems and generally four on a stem. Color is soft, pleasing lavender with wings of French gray, making a dainty and lovely blossom. Combines extreme loveliness with strength and vigor. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 80c.

ROYAL PURPLE.—A distinct and striking sort. The color is so rich that it will astonish the beholder with its beauty. It is a warm rosy purple, the younger flowers having a slightly softer tone and the flowers are of immense size and usually produced in fours, while the stems are of great length. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.00.

SUNPROOF CRIMSON.—As its name implies this is a splendid crimson color and selected for our list as the most vigorous variety of this shade. Will stand the summer heat without fading or drooping. If you buy a mixture add a few of these to increase proportion of red in the color of your hedges. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 80c.

WEDGEWOOD BLUE.—We have given this the preference among blue sorts because it is not only the newest but has proven its superiority over the older varieties of this shade. It is a beautiful bloom, of lively blue in its entirety, and the flowers are waved in both standards and wings. The stems nearly always bear four perfect blossoms on each. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.00.



WHITE SPENCER SWEET PEAS

ORNAMENTAL CLIMBERS

Nothing adds more to the homelike appearance of a place than to have the pleasant shade of vines over the porches, and climbers on trellises, trees, fences, and outbuildings. We list them together so that our customers can make selection. Notice also the list of hardy permanent vines on pages 106 and 107.

AMPELOPSIS VEITCHII, or Boston Ivy.—Described with Hardy Vines. Pkt. 5c.

BALLOON VINE.—A pretty, rapid growing climber, succeeding best in a warm situation. Flowers white, followed by balloon-like seed pods. Pkt. 5c; oz. 30c.

BRYANOPSIS.—Beautiful summer climber, yellow flowers, followed by pretty cherry-like green fruits which change to bright scarlet, marbled with white. Pkt. 5c.

COBOEA SCANDENS.—A magnificent climber of rapid growth and beautiful blue flowers. The seed should be planted edgewise. Pkt. 10c.

CANARY BIRD FLOWER.—One of the most beautiful climbers, with delicate, finely-cut foliage and curious bright yellow flowers, resembling the canary bird in shape and color. Pkt. 10c, oz. 25c.

CARDINAL CLIMBER.—A hybrid form of Cypress Vine and Morning Glory. Grows 20 to 30 feet high, producing bright cardinal flowers 1 to 1½ inches in diameter. A novelty of merit for porch and arbor uses. Pkt. 15c.

CYPRESS VINE.—A beautiful rapid climber with delicate dark green foliage, and an abundance of star-shaped scarlet and white blossoms.

Mixed Colors.—Above mixed. Pkt. 10c, oz. 40c.

DOLICHOS.—(Hyacinth Bean).—**Mixed Colors.**—A rapid growing annual climber flowering freely, in clusters followed by ornamental pods. Fine for arbors or porches. Pkt. 5c, oz. 15c.

Daylight.—Pure white flowers standing out boldly from the rich foliage. Pkt. 5c; oz. 20c.

Darkness.—A good companion for above. Both stems and under side of its leaves purplish red. Pea-like flowers; it blooms early. Pkt. 5c; oz. 20c.

GOURDS.—Ornamental Mixed.—A mixture of the odd-shaped and fancy-colored sorts. Contains the most popular and handsome foreign varieties. Pkt. 5c, oz. 25c.

JONAH'S GOURD.—Grows with wonderful rapidity, useful for covering old trees, walls, porches, outbuildings, etc. Leaves quite large, flowers pure white, 2 or 3 inches in diameter. Fruits of great length, resembling well-known Hercules Club. Pkt. 12 seeds 10c, 3 for 25c.

KUDZU VINE.—Jack and the Beanstalk.—Hardy, very rapid growing vine which dies to the roots after frost, but which grows to forty feet in a season when established. Large foliage and clusters of pea-shaped purple flowers. Grows readily from seed. Pkt. 10c.

MORMORDICA.—Mixed.—Commonly known as Balsam apple and Balsam pear. Foliage ornamental, and fruits are golden yellow, opening when ripe, showing a bright carmine center. Fine for trailing over stumps, etc. Pkt. 5c; oz. 25c.

MAMMOTH PASSION FLOWER.—Sow the seed early and if well cared for and seasons are favorable, vines will put forth magnificent blossoms the first year, of pink, blue and white, very large and showy. A very desirable vine for trailing over porch or trellis; also quite desirable for planting over mounds and in the cemetery. Pkt. 10c.

CLIMBING NASTURTIUM.—Description and prices of different varieties on page 70.

MOONFLOWER.—White.—(*Ipomoea Grandiflora*).—One of the grandest summer climbers, growing 25 to 40 ft. high, and covered nightly and dull days with beautiful flowers from 5 to 6 in. in diameter. Fragrant. Pkt. of 5 seeds 10c, ½ oz. 25c.

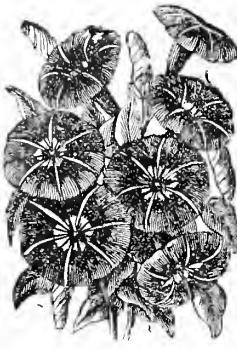
Blue.—Distinct and charming novelty; in striking contrast to the true White Moonflower. Color exquisite, clear, satiny blue; well defined crimson bars. Pkt. 10c; ½ oz. 50c.

RUNNER BEAN.—Scarlet Runner.—A valuable climbing bean, having bright scarlet flowers and pods; very showy as a climber, also valuable for table use. Pkt. 10c; ½ lb. 20c; lb. 50c.

SMILAX.—Considered the most beautiful of all vines for indoor growing and specially valued by florists for decorating and floral work all times of the year. The seeds start slowly and should be planted in loose, rich soil, and kept moist and warm. Pkt. 5c.

THUNBERGIA.—Mixed Colors.—(Black Eyed Susan).—Beautiful rapid growing climbers for vases, trellises or rustic work. Buff, orange, white, etc. Pkt. 5c.

feet or more. It is perennial and easily grown from seed. Of rapid growth, bearing in spring immense panicles of purple flowers in great profusion. Pkt. 10c.



CARDINAL CLIMBER



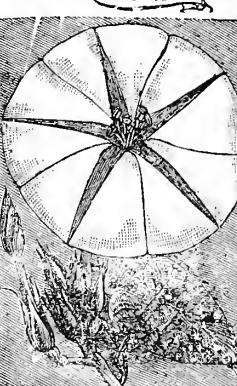
CANARY BIRD FLOWER



COBEA SCANDENS



GOURDS



MOONFLOWER



IMPERIAL JAPANESE MORNING GLORIES

MORNING GLORIES.—Imperial Japanese.—Remarkable for the large size and exquisite new colors of the flowers, with magnificent foliage. Vines grow quickly to a height of twelve to twenty feet. Flowers are of gigantic size, sometimes measuring four or five inches across. Colors, shading and markings really wonders of nature. Double and single mixed. Pkt. 5c; oz. 15c.

Fringed Japanese.—Odd yet attractive appearance. Similar in size and coloring to the Imperial strain and delicately beautiful because of waved and curled borders of blossoms. Pkt. 10c; oz. 35c.

New Double Flowering.—Of rapid growth and flowers very freely. They are white with a slight spot of red or blue at base of larger petals. About 8 per cent of seedlings will reproduce themselves true from seed. Pkt. 10c.

Improved Climbing.—A great improvement on the old climbing morning glory. Large size; great variety. Pkt. 5c; oz. 20c; ¼ lb. 60c.

Fine Mixed.—Mixture of odd sorts. Pkt. 5c; oz. 10c; ¼ lb. 25c.

Brazilian.—(*Ipomoea Setosa*).—One of the grandest and most luxuriant plants ever grown; very showy and graceful, with rose-colored flowers from 3 to 4 inches in diameter, and a huge leaf 10 to 12 inches across. Pkt. 10c; oz. 25c.

PERENNIAL SWEET PEAS.—(Lathyrus).—A very popular perennial variety and it should be more generally used. Mixed colors. Blooms second year. Pkt. 10c; oz. 30c.



WILD CUCUMBER.—A well known vine common in many sections, and the quickest climber known for covering verandas, old trees and houses, trellises, etc., never suffering from the heat, but retaining its fresh and lively green color; never infested with insects, very profuse in bloom. It reaches height of 30 feet in one season. It is covered with clusters of white, sweet-scented flowers, followed by an abundance of ornamental prickly seed pods. It will reproduce itself from self-sown seed every year. Pkt. 5c; oz. 20c.

WISTARIA.—One of the most popular hardy vines, climbing to a height of 50 feet or more. It is perennial and easily grown from seed. Of rapid growth, bearing in spring immense panicles of purple flowers in great profusion. Pkt. 10c.

EVERLASTINGS AND GRASSES

These are very attractive for winter decoration as they are of rich brilliant colors and are fine for winter bouquets. Cut when in full bloom, tie in small bunches and hang heads downward, to dry.

AMOBium.—*Alatum Grandiflorum*.—A pretty everlasting, double white flower. Pkt. 5c.

ACROCLINIUM.—Mixed Colors.—An everlasting of fine form, growing about two feet high and producing large double flowers which when dried retain their form and beauty for a long time. Shades of pink to white. Pkt. 5c; oz. 20c.

GLOBE AMARANTH.—*(Gomphrena)*—Mixed Colors. Popularly known as "Bachelor Buttons." Handsome, globular heads of flowers; if cut when well matured, retain their beauty during winter. Colors purple, white, flesh, orange and striped. Pkt. 5c; 1/4 oz. 10c; oz. 25c.

HELICHRYSUM.—*Monster Mixed*.—A very pretty and popular hardy annual bearing large double flowers of different shades and colors, ranging from white to yellow, rich red, scarlet. Best everlastings, as they retain their form and color for many months, and are particularly useful in winter decoration. Pkt. 5c; 1/4 oz. 15c; oz. 50c.

JOB'S TEARS.—An ornamental grass known botanically as *Coxia Lachryma*.

Produces beautiful seeds about 1/4 inch in diameter, which are used like beads in fancy work. Grows 2 to 3 ft. high with broad, corn-like leaves. Pkt. 5c; oz. 15c.

JOB'S TEARS FOR FANCY WORK.

We also offer in quantity, at a low price, choice seeds of glossy pearl color, which are used for necklaces, basket, and raffia work, and in strings for portieres. Not sold for germination. Oz. 10c; 1/4 lb. 35c; lb. \$1.00.

PENNISTEUM.—*Rueppelianum*.—A handsome grass commonly called Purple Fountain Grass. Very popular for borders to beds of cannae and other large bedding plants. Pkt. 10c.

RHODANTHE.—Mixed Colors.—One of the finest and most beautiful of flowers; are of various colors. For winter bouquets the blossoms should be gathered before fully expanded, and if dried in the shade will retain their brilliancy for years. Pkt. 10c.

STATICE.—(Sea Lavender)—Immense panicles of small blue flowers sometimes more than a foot in diameter. Grows 12 to 18 in. high with thick, heavy foliage. Flowers are very lasting if properly dried and are very striking in winter bouquets. Pkt. 10c.

XERANTHEMUM.—Free flowering and easily grown, making a handsome bed. All kinds mixed. Pkt. 10c.

MONSTER HELICHRYSUM.

Produces beautiful seeds about 1/4 inch in diameter, which are used like beads in fancy work. Grows 2 to 3 ft. high with broad, corn-like leaves. Pkt. 5c; oz. 15c.

JOB'S TEARS FOR FANCY WORK.

We also offer in quantity, at a low price, choice seeds of glossy pearl color, which are used for necklaces, basket, and raffia work, and in strings for portieres. Not sold for germination. Oz. 10c; 1/4 lb. 35c; lb. \$1.00.

PENNISTEUM.—*Rueppelianum*.—A handsome grass commonly called Purple Fountain Grass. Very popular for borders to beds of cannae and other large bedding plants. Pkt. 10c.

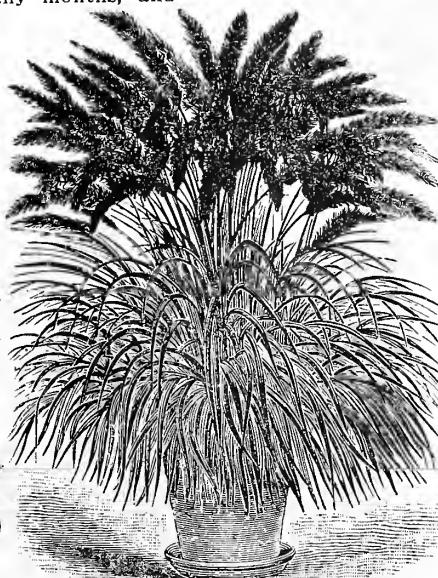
RHODANTHE.—Mixed Colors.—One of the finest and most beautiful of flowers; are of various colors. For winter bouquets the blossoms should be gathered before fully expanded, and if dried in the shade will retain their brilliancy for years. Pkt. 10c.

STATICE.—(Sea Lavender)—Immense panicles of small blue flowers sometimes more than a foot in diameter. Grows 12 to 18 in. high with thick, heavy foliage. Flowers are very lasting if properly dried and are very striking in winter bouquets. Pkt. 10c.

XERANTHEMUM.—Free flowering and easily grown, making a handsome bed. All kinds mixed. Pkt. 10c.



GLOBE AMARANTH.



PENNSETUM RUEPELIANUM

WILD GARDEN MIXTURE.—Over 400 kinds of flower seeds which are suitable to be planted together, altogether forming a mass of bright colored flowers and beautiful foliage which is sure to interest and please. Our illustration will give some idea of the possibilities of growing flowers from this mixture. Select a light, rich soil, as free from weeds as possible, plant in this latitude about the first of May. Pkt. 5c; 1/4 oz. 10c; oz. 25c.

MIXED BIENNIALS AND PERENNIALS.—About fifty varieties. Every garden should contain a good assortment and it will be easily obtained in this way. Pkt. 10c; 1/4 oz. 25c; oz. 75c.

MIXED EVERLASTINGS.—Grand assortment of everlasting flowers, suitable for bouquets, etc. Pkt. 10c, 1/4 oz. 25c; oz. 75c.

LOW GROWING ANNUALS.—This mixture contains seed of a great variety of low growing annuals, few of which exceed four to six inches in height, and which, sown in beds or borders, present the appearance of Turkish rugs, carpeting the ground in their wide range of colorings and forms. Pkt. 5c; 1/4 oz. 15c; oz. 40c.

FLOWERS FOR BOUQUETS.—This mixture embraces seeds of annuals producing flowers suitable for cutting and for bouquets, nearly all of them having long stems. Planted in a section of the garden this will furnish a constant supply of cut flowers. Pkt. 10c; 1/4 oz. 25c; oz. 75c.

INTERNATIONAL NOVELTIES MIXED.—Each year we make a grand test of floral novelties, obtaining seed therefor from all parts of the world, and our trial fields exhibit a truly magnificent display of flowers never before grown here. A few of the new varieties did not do well with us, but they may prove valuable in other climates or on different soils; by far the larger number are valuable acquisitions which we would like our customers to try. We have saved seed of most varieties, but instead of listing them separately at 10c to 25c per pkt., we have decided to mix them all together and offer our customers this grand assortment at the low price of 10c per pkt.; 3 for 25c.

LAWN FLOWER MIXTURE.—A special mixture of low growing, quick blooming flowers, very desirable for sowing with Lawn Grass Seed in the spring. They come up quickly, afford shelter for grass seed and will bloom by the time the grass requires cutting the first time. Also desirable for sowing on an old lawn very early in the season. Pkt. 10c; oz. 25c.

I received the last order in good shape and was well pleased with it. Will favor you next spring. Bertha Huston, Leneza, Kan.



SUMMER FLOWERING BULBS



Many of the most showy, attractive, inexpensive and easiest grown of all summer and autumn flowers are contained in this important class. Few other flowers can compare with the noble and brilliant spikes of the gladiolus, the grace and elegance of the lily, the purity and sweetness of the tuberose, the majestic foliage of the canna and the wonderful markings of the Tigridia. Bulbs for spring planting require but little care and quickly make a gorgeous display, while the bulbs can be kept over winter and year after year will return a hundred fold in beauty and satisfaction the trifling expense of the original cost. For lilies and other hardy bulbs see pages 83 and 84. Bulbs are large and strong and will be sent well packed, postpaid, on receipt of price, except where noted.

AMARYLLIS

JOHNSONII.—Of strong, vigorous growth, bearing from 3 to 6 brilliant red flowers on each stem. The petals are striped with white; very attractive; fragrant. Each 50c.

FORMOSISSIMA.—(Jacobeian Lily.)—Is of extremely rich, deep velvety crimson. Free bloomer and succeeds well in pots or open ground. Each 15c, 3 for 40c; dozen \$1.25.

ATAMASCO.—A fine little bulb for summer blooming; bears pink flowers. Plant closely. Ea. 15c; dozen \$1.25

CALADIUM

ESCULENTUM.—(Elephant's Ear.)—A splendid tropical plant, growing 4 to 5 feet, with immense leaves, beautifully veined and variegated with different shades of green, often growing 3 feet long. Of easy culture. Medium sized bulbs 15c, 3 for 40c; large bulbs 25c, 3 for 60c; mammoth 40c, 3 for \$1.00.

FANCY-LEAVED.—These have grown very rapidly in popular favor, not only for decoration of conservatory, greenhouse and window boxes, but nearly all varieties succeed admirably planted out of doors, when the ground has become warm, in partly shaded, sheltered borders. Leaves variegated red, yellow, white, brown, green, etc. Many choice varieties, each 30c; dozen \$3.00.



A. CROZY

FLORENCE VAUGHAN

MAD. CROZY CANNA

foliage is bronze with brownish green stripes, height 4 feet. Each 20c; dozen \$2.00.

LOUISIANA.—A very fine specimen of the orchid flowered type. Color vivid scarlet. A strong grower; height 6 feet. Foliage green. Each 15c; dozen \$1.50.

MADAM CROZY.—One of the most popular sorts. A fine grower and the contrasting

colors of the flower make it a favorite. Height 3½ feet. Green foliage; flowers vermillion red, gold bordered; a succession of flower trusses. Each 15c; dozen \$1.50.

MARTHA WASHINGTON.—Dwarf variety growing about 3 feet tall. Very profuse bloomer. Flowers large, and beautiful bright pink color. Each 15c; dozen \$1.50.

MONT BLANC.—The nearest pure white of any canna ever offered. The flowers are large and showy. Foliage green. Height 3 feet. Each 20c; dozen \$2.00.

NEW YORK.—Leaves very large and broad, dark purple color. Flower scarlet. A splendid sort. Each 20c; dozen \$2.00.

PENNSYLVANIA.—One of the best orchid flowered sorts. Foliage green, flowers very large, bright scarlet, shaded orange; height 6 feet. Each 15c; dozen \$1.50.

SHENANDOAH.—A large pink flower of splendid form. Dwarf habit but strong grower. Height 3 feet. Bronze foliage. A popular sort. Each 15c; dozen \$1.50.

DAVID HARUM.—Height 3½ ft. A dark foliage variety, with very large petalled flowers of intense vermilion scarlet. Choke variety. Each 15c; dozen \$1.50.

ROSEA GIGANTEA.—As its name implies, this is a very large flowered variety. A strong, vigorous grower and desirable. Each 25c; dozen \$2.50.

UNCLE SAM.—Great, large flower of orange scarlet. A striking variety. Height 6 feet; green foliage. Each 20c; dozen \$2.00.

VENUS.—Height 4 feet. Flowers extra large, pink, bordered yellow. A general favorite because it makes a splendid show. Each 15c; dozen \$1.50.

WYOMING.—One of the most majestic flowering cannas in orchid flowering class, with a luxuriant growth of rich purple foliage. Above are borne great plumes of massive orange-colored blossoms with large petals. Seven ft. Each 15c, dozen \$1.50.

YELLOW KING HUMBERT.—A distinct shade bright yellow. Flowers large, plant strong and robust; a free bloomer. Foliage green. Height 3 feet. Each 25c; dozen \$2.50.

MIXED BEDDING CANNAS.—Ea. 10c; dozen \$1.00. Our choice of kinds selected for harmony and contrast.

CONTRAST CANNA BED

A Few of the Best in a Bargain Offer.

2 A. Crozy 2 Chas. Henderson

2 David Harum 2 Buttercup

2 Venus 2 King Humbert

Twelve of the choicest sorts, showing a fine contrast in flower and foliage.

POSTPAID FOR \$1.70.

UNCLE SAM CANNA COLLECTION

One each of the following choice varieties, offering a wide range in colors and types:

Brandywine
California
Indiana

Louisiana
Martha Washington
New York
Pennsylvania

Shenandoah
Uncle Sam
Wyoming

TEN SUPERIOR SORTS POSTPAID FOR ONLY \$1.50.

INDIANA CANNA

CINNAMON VINE

This beautiful climber possesses the rare quality of emitting from its flowers the delightful odor of cinnamon; is appropriately called the Cinnamon Vine. Perfectly hardy, the stem dying down every autumn, but growing again so rapidly as to completely cover any trellis or arbor very early in the season. With its beautiful heart-shaped leaves, clusters of delicate white flowers and delicious cinnamon odor it is most desirable. We furnish the large tubers, postpaid, for 10c; 3 for 25c; doz. 75c. We can supply small bulbets from which the large tubers may be grown in one season at 10c per doz.; 100 for 60c.

STATELY DAHLIAS

The Dahlia is one of the showiest of all autumn flowers. Commencing to flower in July, they are a perfect blaze of bloom until stopped by frost. Especially fine for cut flowers. They have been greatly improved and we now grow acres of them to supply the demand. Out of the many hundred varieties we have selected the following as of special value. For best results start roots early in the house. Late in the season, when dry roots become exhausted, we then fill orders with strong rooted pot plants.

DECORATIVE DAHLIAS

For type of blooms see Nos. 1 and 2 in group picture.

DELICE.—A new dahlia, greatly prized by specialists because it is a new shade—an exquisite glowing rose pink—a soft yet brilliant shade. Admirable in vigor and habit of growth. Ea. 30c, 3 for 75c.

ELSIE DAVIDSON.—Giant-flowering, deep golden yellow. A popular variety because of form and color. Each 35c.

JACK ROSE.—So named because the color is brilliant crimson red, almost exactly like the General Jacqueminot rose. Popular because of brilliant color which shows to advantage in any collection. Each 30c, 3 for 75c.

BARON GRANCY.—One of the best white decorative dahlias, resembling the peony. Petals are uneven, giving the flower a unique appearance. Color white, effectively overlaid pink. Ea. 35c.

SYLVIA.—(See cut No. 2.)—A very lovely shade of mauve pink, shading to white in the center. A fine flower on a vigorous plant. One of the best decorative dahlias of lighter shade. Ea. 30c, 3 for 75c.

SOUVENIR de GUSTAV DOAZON.—Giant flower, strong plant. Ordinarily 6 inches and sometimes fully 9 inches across. Blooms in abundance. Color bright, dazzling red. Each 25c, 3 for 60c.

SHOW DAHLIAS

Type of blooms, Nos. 3, 4 and 5 of group picture.

A. D. LIVONI.—(See cut No. 4.)—Also offered under the name Ethel Vick. A very early blooming variety of delicate shell pink. Very handsome and best of the pink show sorts. Each 30c, 3 for 75c.

W. W. RAWSON.—Flowers 18 inches in circumference and of the most beautiful form; petals are rolled up so that they overlap each other. Color is pure snow white slightly tinged with delicate light blue at center. Each 35c, 3 for 90c.

MAID OF KENT.—(See cut No. 5.)—Richest crimson velvet. About half the petals are tipped with a large spot of white. Frequently flowers are solid scarlet, but most are variegated. Each 30c, 3 for 75c.

MERLIN.—A beautiful orange-scarlet. One of the very finest dahlias ever offered. Free flowering and good for cut flower purposes. Each 30c.

NORMA.—A dahlia that should be grown by all flower lovers. In our estimation a model of perfection. Flowers are large, perfectly quilled, and of a most exquisite shade live bright orange. Ea. 30c.

QUEEN VICTORIA.—Plant a robust grower and so covered with flowers as to appear almost like a solid mass of golden yellow color. Blooms early. Each 25c, 3 for 60c.

ROBERT BROOMEFIELD.—Pure white. Tall grower. Each 30c.

STRADELLA.—Beautiful deep purple-crimson. Exceptionally free flowering. Stems long and wiry. One of the finest to date. Ea. 30c.

POMPON DAHLIAS

The small flowered type so popular for bouquets and cut flowers.

AMBER QUEEN.—An extra free bloomer, clear amber shaded apricot; fine. Each 25c, 3 for 60c.

DARKNESS.—Dark maroon. Furnishes the heavy color for contrast. Strong grower. Each 25c, 3 for 60c.

FAIRY QUEEN.—Sulphur yellow, edged pink. Each 20c.

PRINCE CHARMING.—Cream, very heavily tipped purple. One of the best. Each 30c, 3 for 75c.

SUNBEAM.—A crimson scarlet. Splendid as a solid color decoration any time or place. Ea. 30c, 3 for 75c.



DAHLIAS (REFER TO NUMBER IN DESCRIPTION)

CACTUS DAHLIAS



CACTUS DAHLIAS

COUNTESS OF LONSDALE.—A peculiar pleasing shade of salmon pink or apricot, shading to carmine at edge of petals. Strong, vigorous grower. Ea. 40c, 3 for \$1.00.

STERN.—A most attractive flower. Color is bright primrose yellow. Very bright and particularly pleasing in mixed bouquets. It will please dahlia lovers. Ea. 40c, 3 for \$1.

J. H. JACKSON.—The finest black cactus dahlia in existence. An exceptionally satisfactory all round dahlia; one of the most prominent for garden decoration, superb as a cut flower variety, and equally good as an exhibition flower. In color a perfectly gorgeous, deep, velvety blackish-maroon. Gigantic in size. Each 30c, 3 for 75c.

KREIMHILDE.—Bright, shining pink, gradually shading to white at the center. Vigorous grower producing the flowers on perfect long stems, making it especially valuable for a cut flower. Each 30c, 3 for 75c.



TWENTIETH CENTURY DAHLIAS

TWENTIETH CENTURY DAHLIAS

BLANCHE.—The flowers are large and very attractive, being a pale yellow at the base, faintly tipped pink, with a cast of pure white over the whole flower, making it one of the most delicate varieties to date. Each 30c, 3 for 75c.

MILDRED.—One of the most charming of the single type. The color is a bright, clear yellow and exceptionally heavy. Each 40c.

ROSE PINK CENTURY.—Flowers six inches and over in diameter; of a clear rose pink color; a strong grower with long, stiff stems. Fine as a cut flower and shows extra well under artificial light. Each 30c, 3 for 75c.

20TH CENTURY.—Purest white at both base and tips, and the center of petals is a delicate blush rose. Very large, 5 to 7 inches in diameter. Each 30c, 3 for 75c.

Received the plants in good condition and was very much pleased with them. Have planted them and am sure they will grow.—Mary M. Schwartz, Reading, Pa.



CHOICE GLADIOLUS.

These are a specialty with us and our fields devoted to them make a most magnificent sight each year, appearing at a distance a mass of bright colors. It is the most desirable of all bulbs and it is claimed by many who are well acquainted with their varied beauty, to be the flower of flowers.

NAMED VARIETIES

AMERICA.—A splendid new variety of beautiful soft pink shade. It will delight the gladiolus grower with its large flowers and pleasing beauty. Each 5c; dozen 50c.

AUGUSTA.—White ground color with blue shading. Fine variety as it is very vigorous and spikes are large and fine. A very beautiful flower. Each 5c; dozen 50c.

EVALINE.—A large, open flower of violet underlaid terra cotta. Rich and striking. Each 5c, dozen 50c.

INDEPENDENCE.—Introduced by us. Extra large size, wide open flowers and handsome salmon rose color. Strong, vigorous grower, nearly 3 feet high. Its color varies as flower grows older. Each 5c, dozen 50c.

MAY.—White flaked with crimson. A dainty flower with just enough color to make it really beautiful. Ea. 6c, doz. 60c.

MAUDE.—Cream yellow with rich maroon spots in lower petals. One of the best of light sorts. Ea. 5c, doz. 50c.

MRS. FRANK PENDLETON.—Queen of Gladioli. Flowers very large and well expanded, lovely flushed salmon pink with brilliant carmine blotches on lower petals, giving it the rich appearance of a pelargonium. Ea. 10c, doz. \$1.00.

MEADOWVALE.—Pure white ground, crimson throat and stripes of pink in lower petals. A beautiful flower. Each 5c, dozen 50c.

MRS. FRANCES KING.—A hybrid sort of great beauty and attractiveness. The color is very pleasing light scarlet. The spike is strong, flowers large and usually a half dozen open at once. Each 5c, dozen 50c.

NIAGARA.—A distinct variety. Tall stalk, strong stem, vigorous; color canary and cream shadings. A splendid sort. Each 6c, dozen 60c.

PRINCEPS.—Rich crimson with deep shadings in throat, and fine large white blotches on the lower petals. The flowers are exceedingly large and fine and they bloom for a long time. This is one of the most magnificent of gladioli. Each 6c, dozen 60c.

ROUGE TORCH.—A beautiful large white with scarlet feather in lower petals. A good variety. Each 6c, doz. 60c.

TACONIC.—A beautiful flower of a lovely pink color, striped and flaked lighter shade, and with throat of light blush. Each 6c, dozen 60c.

VELVET KING.—Almost solid colored flower of deep crimson. A very fine variety for bouquets or decorative effects. Each 5c, dozen 50c.

GLADIOLUS COLLECTION

One choice first size bulb each of **Augusta**, **Bernice**, **Evaline**, **May**, **Mrs. Frances King**, **Mrs. Frank Pendleton** and **Maude**; 7 choice sorts, only 35c, postpaid.

HYACINTHUS CANDicans

This is a large, strong, vigorous bulb, growing a stem 3 to 4 feet high. The stems bear quantities of large, drooping flowers, ivory in color and bell-shaped, per illustration. Flowers are delicately fragrant and by planting closely a clump of these will produce a charming effect, the flowers appearing like giant snowdrops. Large bulbs, each 10c, dozen 1.00.



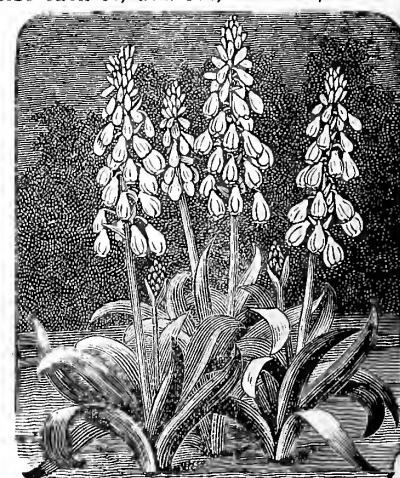
SPECIAL GLADIOLI MIXTURES

For the benefit of such of our customers as wish a number of given tints for massing we are offering at attractive prices some of the choicest mixtures to be found in this country.

ALTOONA MIXED.—This is put first in our list of Gladioli because we believe it is the best mixture in existence. These bulbs are grown by us on our Altoona farm and the mixture is made mainly from the named varieties on this page and other very choice sorts which we do not list. Large bulbs each 5c, dozen 50c, 100 for \$4.00.

SILVER TROPHY MIXED.—Considered one of the finest of commercial mixtures. Our stock was procured from the originator and has been carefully grown, so that we can without hesitation recommend it to our friends. Each 5c, dozen 50c, 100 for \$3.00.

FINE MIXED.—Our own mixture containing a wide range of color; offered at a very low price and we feel sure they will prove satisfactory. First size each 4c, doz. 35c, 100 \$2.50; second size each 3c, doz. 25c, 100 for \$1.50.



HYACINTHUS CANDicans

LILIES

Nothing can surpass the Lily in beauty, purity, delicacy and stately, magnificent grandeur. A few clumps planted in some place in your yard where they will not be disturbed from year to year, will reward you with abundant flowers. These varieties are, perhaps, the most popular lilies grown, being of easy cultivation, and producing large flowers of delicate beauty on strong stems. Bloom better the second year, and thereafter.

TIGER LILIES

The old fashioned tiger lilies were favorites for many years, and are still popular. The improved varieties here offered are far superior to the old kind and are worthy a place in any garden.

DOUBLE TIGER LILY.

—A double form of the old Tiger Lily. The flower is densely double, color orange red, spotted with black. Blooms freely; should be more largely grown. As hardy as the old-fashioned tiger lily and much more beautiful. Each 15c; dozen \$1.25.

DOUBLE TIGER LILY

—An improved Tiger Lily growing sometimes 5 feet high and producing large pyramids of orange red flowers spotted with black. Each 15c; dozen \$1.50.

TIGRINUM SPLENDENS.—An improved Tiger Lily, brightest of all lilies, of shining coral red color. Foliage finely cut. This is indeed a little beauty and will be a delight in your garden. Each 20c, dozen \$2.00.



LILUM TIGRINUM SPLENDENS

HARDY EASTER LILY

The true Easter lily is not hardy and grown in the house during the winter. The hardy variety (*Lilium Candidum*) can be grown in same way as other field lilies, but we cannot supply stock in spring. It is one of the most popular sorts and everyone loves it for its purity and fragrance. Orders sent in spring will be filled in the fall. Each 20c.

HEMEROCLALIS LILIES

These are hardy, herbaceous plants that multiply rapidly, and are very desirable for clumps and mass planting.

LEMON LILY.—One of the handsomest flowers for garden culture. It is not a true lily, as the bulb is of different shape, but the flower is very much like the *Lilium Speciosum* in form and about 3 inches in diameter. The color is entirely different from all others, being a clear lemon yellow of very bright, pleasing appearance. They have also a most delightful lemon fragrance. There seems to be almost no limit to amount of bloom produced. Each 15c; dozen \$1.50.

ORANGE LILY.—Similar to Lemon Lily in manner of growth, but of fine orange color. A bed of these and Lemon Lilies intermingled will give a most pleasing effect in outdoor plantings, and the grower will be more than repaid by wealth of blossoms available for table decorations or bouquets. We wish we might persuade all our flower loving customers to try the two lilies mentioned and we feel sure they will be delighted with results obtained. Each 15c; dozen \$1.50.

BUTTERCUP LILY.—(*Hemerocallis Thunbergii*).—Is a splendid variety of Hemerocallis which blooms in July after the other varieties are done. Grows 4 feet high and produces large lily-like flowers of buttercup yellow. Each 15c; dozen \$1.50.

SPECIAL OFFER.—We will send 2 Lemon and 2 Orange and 2 Buttercup Lily bulbs for 75c, postpaid.

CANDIDUM LILY

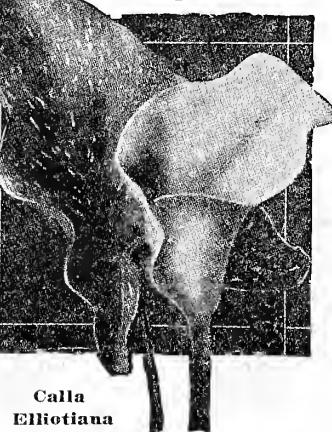
These are generally sent out as dry bulbs, but the Little Gem variety are always started plants.

MAMMOTH WHITE.—Largest flowering variety and most majestic. It is of perfect flowering form with large tropical appearing leaves of bright green color and yielding throughout the season a profusion of white flowers. Large size each 25c, 3 for 60c; medium size each 15c, 3 for 40c.

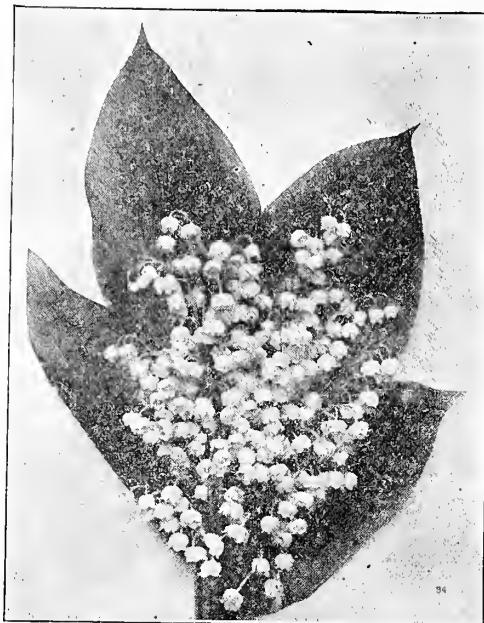
ELLIOTTIANA.—This magnificent new yellow calla is of marvelous beauty. The flowers are very large and of the brightest golden yellow. Leaves beautifully spotted with white. Each 35c; 3 for 90c.

LITTLE GEM.—A perfect miniature Calla, growing 8 to 12 inches high, producing beautiful snow-white blossoms. Blooms summer or winter, beginning when a few inches high. Growing Plants 15c; 3 for 40c.

SPOTTED LEAF.—Leaves deep green with spots, giving plant a magnificent appearance. Flowers are of pure white with black centers. Each 10c, dozen \$1.00.



LITTLE GEM CALLA



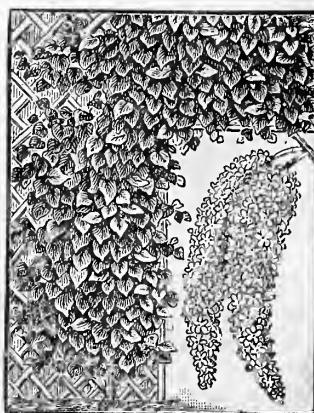
LILY OF THE VALLEY

LILY OF THE VALLEY

A well-known and universally admired spring flowering plant, bearing bell-shaped, freely produced and powerfully fragrant flowers. To grow in the open ground one should select a partly shaded and rather moist situation, and they are very charming when grown in large patches as their handsome green leaves and lovely sprays of flowers make a beautiful effect together. When once planted and established the crowns increase in number and the larger ones flower each year without attention. Now is the time to set out a bed of these delightful flowers. Our price is low for choice stock such as we send out. Four strong roots for 20c; dozen 40c; 100 for \$3.00.

MADEIRA VINE

Also called Mignonette Vine and Mexican Vine. A beautiful tuberous-rooted climber, with rather plain, thick leaves and handsome racemes of fragrant white flowers. The vine makes a very rapid growth and a few plants will cover a trellis or cottage in a single season. It is a very pretty thing to use for shading a porch or veranda, as the leaves are brilliant, glossy green. The bulbs are frequently known as "Madeira Potatoes," and our stock is particularly well grown, carefully sorted, strong and vigorous. Each 5c; dozen 45c.



MADEIRA VINE



OXALIS SHAMROCK

TUBEROSE

NEW EXCELSIOR PEARL.

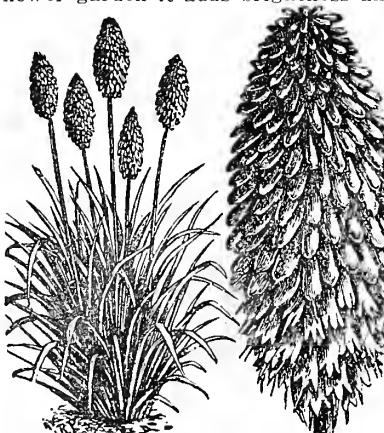
The tuberose is justly a universal favorite and very easily grown. This variety has short, robust stem and long spikes of large flowers, which are perfectly double and twice the size of the common tuberose, while of equally delicious fragrance. Spikes frequently bear 30 to 50 flowers, remaining in bloom for a long time. They are always wax-like, pure white, and unsurpassed for buttonhole bouquets. Monster bulbs each 7c; doz. 60c. First size bulbs each 5c; doz. 40c. Second size, doz. 25c; 100 for \$1.50.

MEXICAN SINGLE.—Grows 3 feet high, producing two to five flower stems from one bulb. Flowers single, pure white, much pleasanter in fragrance than the Pearl. Each 5c; dozen 40c.

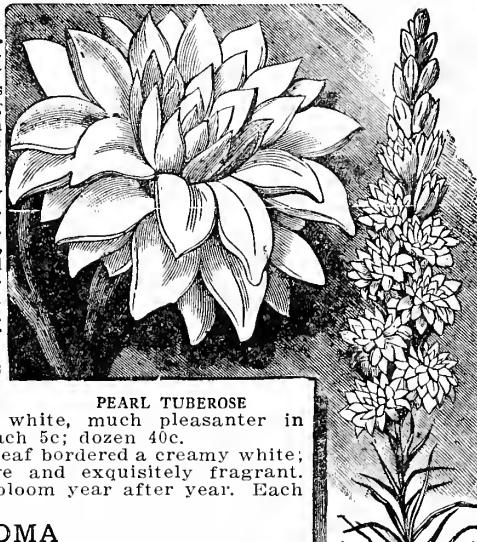
VARIEGATED LEAVED.—Leaf bordered a creamy white; flowers single but very large and exquisitely fragrant. Bulbs continue to grow and bloom year after year. Each 5c; dozen 50c.

TRITOMA

PFITZERI.—(Flaming Torch.)—Flower spikes are produced in great freedom and are gigantic in size, frequently 3 to 4 feet high. The flowers are of rich orange scarlet, shaded to a rich salmon rose at the edge. A bed of these in bloom is a grand sight, or, scattered through the flower garden it adds brightness and is in its glory when nearly all other flowers are seared with frost. Ea. 20c, 3 for 50c.



TRITOMA PFITZERI



PEARL TUBEROSE

No bulb is so valuable for edging the borders of walks or flower beds as the beautiful flowering Oxalis. When planted three inches apart they produce an unbroken row of elegant foliage and pretty flowers; and they bloom very quickly after planting.

SHAMROCK.—Leaves resemble four-leaf clover; the flowers rose color and borne in profusion on vine-like stems. Pretty for border. Doz. 10c; 100 60c; mammoth bulbs per dozen 15c.

DIEPPI ALBA.—Pretty low-growing variety with light green leaves and clusters of pure white, bell-shaped flowers; blooms profusely. Doz. 10c; 100 for 50c.

LASIANDRA.—Large, dark green, palmate or five-fingered leaves, with clusters of rosy pink flowers. This is taller than above. A most satisfactory bulb for bordering flower beds. Doz. 10c; 100 for 60c; mammoth bulbs per dozen 15c.

WINTER BLOOMING BULBS

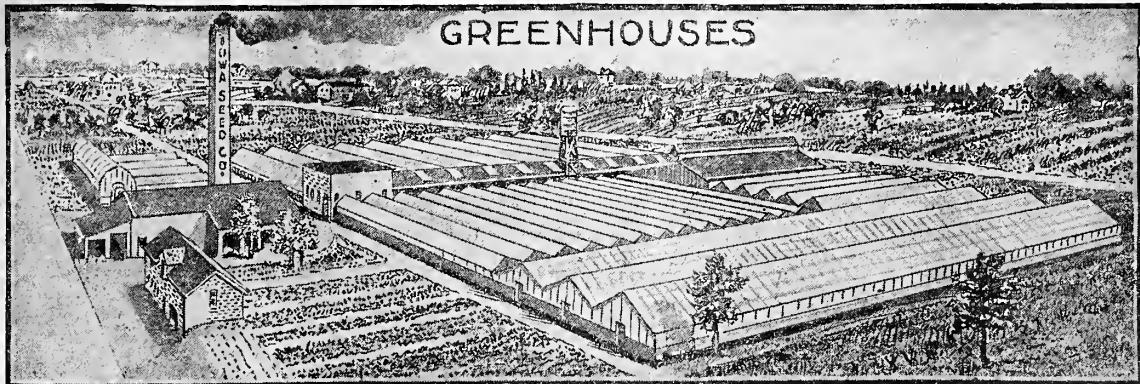
Owing to the world war we are unable to procure many items which we formerly listed. We have omitted some of the hardy Lilies, all the Hyacinths, Tulips and other Holland bulbs and some other plants and shrubs which we have imported in years past.

If conditions become normal before August 1, 1919, we will issue a special Fall catalogue of hardy bulbs at that time and it will be mailed without request to our plant customers. If you patronize the Greenhouse Department you need not ask for it. If you do not order plants and want a copy, drop us a post card some time in July.



DOUBLE, SINGLE AND PARROT TULIPS

GREENHOUSE DEPARTMENT



Iowa Seed Company's Thirty-two Greenhouses

Our greenhouse department is better equipped to care for a mail order plant trade than any establishment in the west. We believe we can serve you in this department as well as any house in the country. We have 32 large greenhouses besides a large number of steam heated hot beds and cold frames. Special attention is given to growing plants for our mail customers. The production of such stocks require expert skill as they require a lower temperature than that accorded to cut flower growing and entirely different methods of care. Our business in this line covers the entire country and we constantly fill orders from every state and ship many orders to foreign countries. Our system of packing is so complete and careful that plants arrive in almost perfect condition after traveling many hundreds of miles. This department is under the personal supervision of Mr. C. W. Davison, a director and stockholder in our company. He has had an experience of many years in conducting this branch and every order received gets his personal care. We ask for your orders for plants,

ABUTILON

SAVITZI.—A most beautiful new variegated-leaved plant. Its maple-like leaves are almost white, being blottedched here and there only with clear bright green; very large, orange-colored, bell-shaped flowers. Each 15c.

ECLIPSE.—A splendid variety for baskets and vases; foliage marbled green and yellow; flowers scarlet and orange buff. Each 15c.

SOUVENIR DE BONN.—A striking decorative foliage plant with beautiful variegated leaves of good size, regularly and evenly marked with white and green. Very large, graceful, drooping, orange-colored flowers. Each 15c.

ARTHUR BELSHAM.—Green foliage. Flowers large, dark red without markings. Tall and erect. Strong grower, free bloomer; a satisfactory variety. Each 15c.

GOLDEN BELLS.—The best yellow flowering variety; of dwarf habit. Each 15c.

DAY DAWN.—Color a bright, clear pink, a pleasing and lovely shade. Each 15c.

ABUTILON COLLECTION.

One each of the six Abutilons named above, postpaid, for only 75c.



ASPARAGUS PLUMOSUS NANUS

ASPARAGUS

PLUMOSUS NANUS.—One of the handsomest of our foliage plants for pot culture, beautiful the year round, and there is no more decorative plant in the entire list. Easily grown, even in a north window. Leaves bright green, gracefully arched, and as finely woven as the finest silken mesh; their lasting qualities, when cut, are remarkable, retaining their freshness for weeks. Each 15c; large 25c.

SPRENGERI.—A splendid new plant for hanging baskets or pots. It droops most naturally, sending out numerous feathery fronds which, in a short time, make a growth of 3 to 6 feet, forming an exquisitely handsome and striking picture. It produces small white flowers which are succeeded by red berries. A well established plant is literally a mass of emerald green. Nice young plants each 15c; large size each 25c.

bulbs, shrubs and nursery stock with confidence that we can and will please you.

Terms.—At the prices named we send plants by mail postpaid except where noted. Orders must amount to at least 25 cents, for if of less amount they are filled at a loss.

Special Express Rates.—The consolidated express company continues to carry plants at second class rates, which are cheaper than ordinary merchandise. In shipping plants by express at customer's expense for carriage we leave the dirt on the roots unless instructed to the contrary.

We Guarantee plants ordered from this list to reach purchasers in any part of United States in good order by mail or express. Complaint must be made immediately on receipt of goods.

Separate Plant and Seed Orders.—We send two order sheets with this book. Use one for seeds and the other for plants as designated. The plant orders go direct to the greenhouse for filling and are kept on file there. Such use of the order sheet will save time and expense.

NOTICE

We ship all plants as soon after order is received as weather permits. Bedding plants we will hold until usual season for setting out. If plants are ordered during winter for immediate shipment they will be sent at buyer's risk.

ACHYRANTHES

Beautiful foliage plants; useful for carpet beds and masses. Stand heat and sun without losing color and shear without injury. Four kinds. Each 10c, dozen 75c, 100 for \$6.00.

DE BAILEY.—Red and green markings on brown leaf.

COLLINSII.—Green and yellow, narrow, pointed leaf.

LINDENI.—Solid dark purple color, narrow, pointed leaf.

EMERSONII.—Color is purplish crimson, round leaf.





CHENILE PLANT

ASTER PLANTS

BEST VARIETIES MIXED.—Price is low and you should have a fine bed of these. Doz. 25c, 100 for \$2.00, prepaid.

SNOWDRIFT WHITE.—Doz. 35c, 100 for \$2.25.

ENCHANTRESS PINK.—Per dozen 35c, 100 for \$2.25.

CRIMSON KING.—Per dozen 35c, 100 for \$2.10.

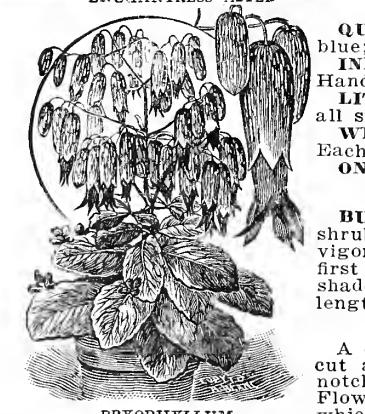
ROYAL PURPLE.—Doz. 35c; 100 for \$2.25.

VIOLET KING.—Doz. 35c, 100 for \$2.10.

EIGHT EACH OF ABOVE FIVE COLORS FOR ONLY ONE DOLLAR.



ENCHANTRESS ASTER



BRYOPHYLLUM

ACALYPHA

BICOLOR.—Brighter and more attractive for bedding than Coleus. Leaves bright green margined with band of lemon yellow, dotted and splotched with the same color. Each 15c.

TRICOLOR.—Mottled and blotched with crimson and scarlet on green background. Maintains its markings in summer heat. Ea. 15c.

MARGINATA.—Foliage bronze green, margined with bright pink on edges. Each 15c.

SANDERI.—(Chenile Plant).—A most striking ornamental plant of branching habit. The flower spikes, which appear in pairs from the axis of the leaves, grow 2 to 3 feet in length. They are bright crimson and mix among the green foliage with charming effect. Each 20c.

One each four Acalypha, postpaid, for 50c.

ANTIRRHINUM

The Antirrhinum is a general favorite for both outdoor and indoor planting. Desirable for decorations in tall vases as cut flowers. Succeeds without extra care. The giant varieties surpass the old-fashioned sorts in every way.

GIANT WHITE.—Perpetual bloomer, producing dozens of long spikes of beautiful pure white flowers. Its blooms will last two weeks. Each 10c, dozen \$1.00.

GIANT YELLOW.—Like white, but color is pure lemon yellow. Each 15c, dozen \$1.50.

KILLARNEY PINK.—The peculiar pink shade seen in the Killarney rose. Each 15c, dozen \$1.50.

GIANT RED.—Bright, brilliant flower; offered special to complete collection. Each 10c, dozen \$1.00.

ONE each, four colors, Antirrhinum, postpaid, 40c.

BOUGAINVILLEA

SANDERIANA.—This beautiful flowering plant is very popular. It is of strong and rapid growth and the brilliant, rosy crimson blossoms are produced from early in March until midsummer. A most desirable plant for conservatory or window garden. Ea. 15c.



BOUGAINVILLEA.



GIANT WHITE ANTIRRHINUM



PRINCESS PAULINE AGERATUM

AGERATUM

PRINCESS PAULINE.—Of dwarf, compact habit, rarely exceeding 5 inches in height. Blue and white colors combined in one flower. Blooms entire season bright and pretty. Each 10c, dozen \$1.00.

STELLA GURNEY.—Deep, even blue. Literally forms a sheet of bloom all summer. Dwarf, compact growth. Each 10c, dozen \$1.00.

QUEEN ALEXANDRIA.—Beautiful shade of dark blue; flowers extra size. Each 10c, dozen \$1.00.

INIMITABLE.—This is a light blue-lavender shade. Handsome. Each 10c.

LITTLE BLUE STAR.—Very dwarf, 6 to 8 in. Blooms all summer. Each 10c, dozen 75c.

WHITE SWAN.—Pure white; fine for borders or beds. Each 10c, dozen 75c.

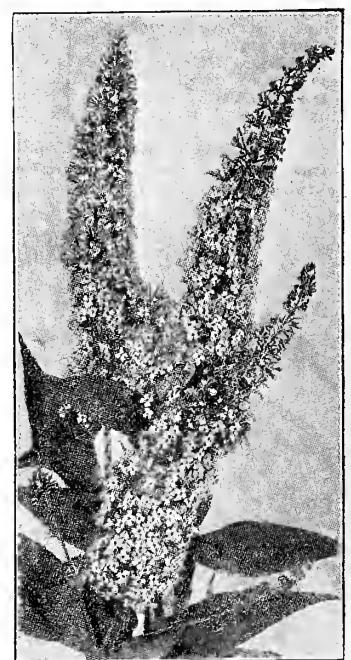
ONE EACH OF SIX AGERATUMS ABOVE ONLY 50c.

BUTTERFLY BUSH

BUDDLEIA.—The Buddleia is a magnificent new shrub. It is hardy, thrives in all sorts of soils, grows vigorously from two to three feet high, and blooms the first season from spring planting. Flowers are soft shade of lilac color borne in dense pikes, 12 to 15 in. in length and 3 in. in diameter. Each 25c, dozen \$2.50.

BRYOPHYLLUM

A curious plant. Leaves thick and heavy and when cut and placed in moist soil little plants start from notches in them and make strong plants in short time. Flowers look like long, green, red striped pods, through which breaks a pointed tube of dull red shade. Ea. 10c.



BUDDLEIA

BEGONIAS



ARGENTEA GUTTATA BEGONIA

ARGENTEA GUTTATA.—Has purple bronze leaves with silvery markings. The flowers are white. A very vigorous, strong growing variety of the easiest culture and always satisfactory. Is an old, well-known variety but still very popular. Each 15c.

REX.—The Rex or King Begonia may well be called the king of foliage plants and they make a magnificent showing with their rich lustrous tints and tropical looking leaves. There are many different varieties, presenting a great range of beautiful markings and splendid color effects. Best results in moist and shaded situations, making it the very finest plant for household decoration.

We have a particularly choice stock of these, including many different kinds, and we are sure they will please. Each 25c.

MADAM De LESSEPS.—Has very large leaves of silky texture beautifully spotted with silver. Flowers pink and white. Each 15c.

PROFUSION.—A new French variety of vigorous growth. Flowers are bright pink, produced evenly all over the plant. Each 10c.

MARGERY DAW.—A beautiful trailing sort. Bright salmon flowers in broad panicles. Green "angel wing" leaves. Each 20c.

ALBA PICTA.—Leaves of a glossy green color, thickly spotted with silver. Flowers white. Each 15c.

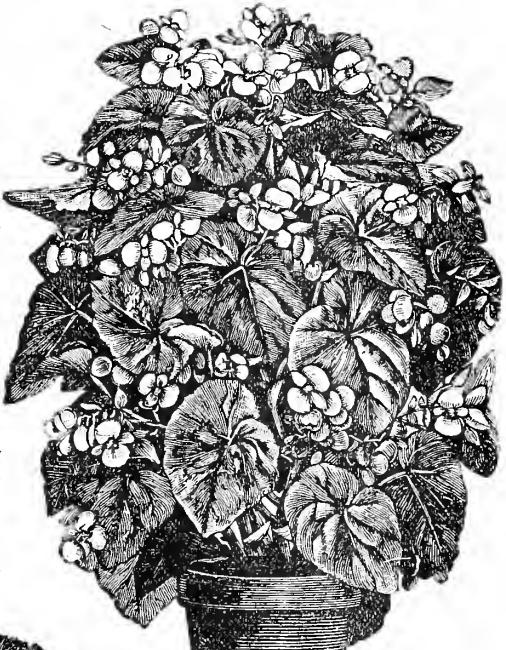
METALICA.—This elegant variety has very large leaves shaded with green, crimson and olive, with a peculiar metallic luster over all. Flowers a clear pink, shaded with white. Each 20c.

RUBRA.—This fine variety is a constant bloomer. Heavy, waxy green leaves. Flowers rosy scarlet. Ea. 20c.

VERNON.—Of unusual value for bedding, as it will stand the hot summer sun. Flowers of pink, blush and brilliant red, foliage sometimes margined with bronze purple. Each 15c; dozen \$1.25.



VERNON BEGONIA



THURSTONII BEGONIA



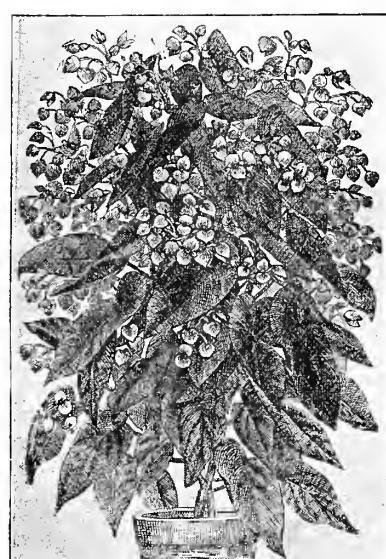
REX BEGONIA

Beautiful Begonia Collection

One Rex, one Argentea Guttata, one President Carnot, one Vernon, one Miniatia, one Madam DeLesseps; six fine plants covering nearly all the distinct types of Begonias and offering a wide range of beauty, for only 80c, postpaid.

PICTA ROSEA.—A wonderfully free flowering begonia of sterling worth and great beauty. The plant is very compact in growth, forming a dense, well proportioned bush with rich green foliage, spotted with silver. The flower is rosy flesh color, shaded with silvery pink, and enlivened with dense clusters of yellow anthers. It blooms constantly and is one of the most wonderful flowering begonias. Each 20c.

PRESIDENT CARNOT.—Bears large panicles of beautiful coral red flowers. Up-right grower; foliage green above, purplish red underneath. Handsome leaf. Each 20c.



BEGONIA

CARNATIONS

Fragrant flowers are always sought after, and the rich, spicy odor of the carnation, combined with its various colors, leaves little to be desired. They are easily grown and bloom freely.

ALICE.—One of the best of the light blush pink carnations. Has superseded the Rose Pink Enchantress which was so popular in past seasons. Each 15c.

BENORA.—A handsome variegated variety, color white with irregular streaks of red. A beautiful composite flower which is very popular. Each 15c.

CHAMPION.—A charming shade of crimson scarlet, differing from any other variety, and to our minds of special beauty. Difficult to describe in ordinary color terms, but will please all lovers of red carnations. Each 20c.

ENCHANTRESS.—A charming variety of immense size and delightful blush pink color. The original of the popular Enchantress type of carnation, which is the favorite with all florists. Each 15c.

HARLOWARDEN.—A bright, dazzling crimson flower; a very free bloomer, bearing flowers on long stems, making it very desirable as a cut flower. Very popular with florists and a splendid sort for amateurs. Each 15c.

HARLEQUIN.—We consider this the best yellow flowered sort. It is nearly pure yellow, being striped with red. Flowers large, very double and produced abundantly. Each 20c, dozen \$2.00.

MATCHLESS.—A pure white flower of extra large size, perfect in form and of great substance. Plant vigorous, bearing the flowers on long, stiff stems. Petals are beautifully fringed, while blooms are exceedingly fragrant. A comparatively new variety, but is generally given first place among white carnations because of its general excellence. Each 15c, dozen \$1.50.

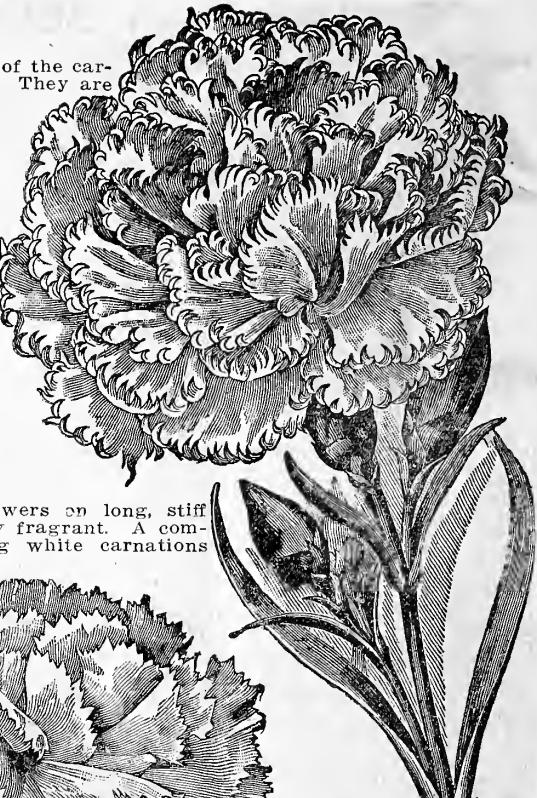
MRS. ACKERHURST.—A new bright pink variety of special value. It is not only lovely in color but it is strong, vigorous and free flowering. You will be greatly pleased with this. Each 20c.

MRS. C. W. WARD.—This is a beautiful deep pink shade, somewhat lighter than Mrs. Lawson, but is of better growth, more vigorous and thrifty than that popular sort. Extra large flowers on strong stems. Ea. 15c.

NEBRASKA.—A fine deep red flower. We offer this variety as the best of this type. It will bloom freely while it gives better results as a pot plant for amateurs than most sorts. In every collection the red shades are appreciated and if you want a dark red carnation you will admire and prize a nice plant of Nebraska. Each 15c.

SUPREME.—Claimed to be the finest pink carnation in the list. Not only distinguished for perfect form and large bloom but the color is also a decided factor in its popularity. We recommend it without reserve, and you should include it in your order. Each 20c.

WHITE WONDER.—Large, nicely filled flowers of the purest white. Not only good for large sized blooms when given special care, but they are valuable for garden planting and pot culture. Very sweetly scented with that delightful old-fashioned clove fragrance lacking in many of the newer carnations. Each 15c, dozen \$1.50.



ENCHANTRESS

MATCHLESS CARNATION COLLECTION

Five extra large flowering sorts of different colors:

Enchantress.—Pink.

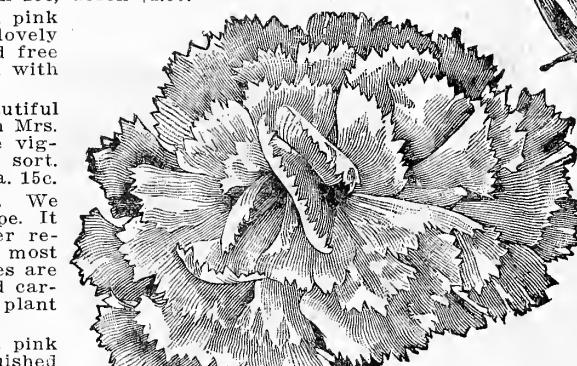
Matchless.—White.

Mrs. C. W. Ward.—Pink.

Harlowarden.—Crimson.

Nebraska.—Bright red.

ONE EACH OF ABOVE 60c.



WHITE ENCHANTRESS AND HARLOWARDEN

CHAMPION CARNATION COLLECTION

Our Champion Carnation Collection is one of our special floral offers for this season and the varieties in this collection are selected for this offer because of extra quality. The collection is made up of six choice varieties of different colors for contrast.

HARLEQUIN.—Golden yellow, slightly striped crimson.

ACKERHURST.—Pink.

BENORA.—White, striped red. Very attractive.

ALICE.—Clear, light pink. Lovely shade.

WHITE WONDER.—Large flowers of pure white.

CHAMPION.—This is perhaps the best scarlet.

ONE EACH OF THESE VARIETIES, POSTPAID for 80c.

BLOOMING CACTUS

The cactus here listed are greatly prized by lovers of house plants. Well grown specimens are very attractive and the blooms are beautiful.

NIGHT BLOOMING CEREUS.—This gorgeous cactus bears abundant pure white blossoms measuring twelve inches across. A plant loaded with these flowers is sight never to be forgotten. Blooms at night and is very fragrant. Better order one and call your neighbors in to see it bloom. This is the true round stemmed variety and not the common flat leaved sort. Each 20c.

FLAT LEAVED CEREUS.—The common sort, similar to the above, except in form of stem. Each 15c.

CHRISTMAS CACTUS.—(Epiphillum.)—Also known as Lobster Cactus. Stems branching and hanging in bunches. Flowers bright red; blooms freely. A popular and beautiful house plant. Each 15c.

CHRYSANTHEMUMS

These are now, and deservedly, the most fashionable of all autumn flowers. All these varieties are excellent for pot culture, and the best of their class. Attract universal attention at great flower shows on account of large size, exceptionally fine shape, and handsome colors. Their large size is of course especially noticeable when grown as a single stem and only one flower is allowed to develop on each plant.

BLACK HAWK.—A dark, velvety crimson. No reverse is noted as the petals are solid color. Form recurved, solid. The most satisfactory solid red chrysanthemums. This color is not so popular as some of the other shades but a few red blooms stand out in fine contrast in mixed bouquets. Each 15c.

DR. ENGUEHARD.—A magnificent new variety of very large size and solid appearance. It is a true bright pink, one of the largest and best ever introduced; is handsomely incurved and very pleasing in appearance. Blooms early in November and makes a splendid pot plant with stiff stem and healthy foliage. Each 15c.

GOLDEN AGE.—One of the best of the solid yellow 'mums. Color, habit and form all that might be desired. Will prove a favorite with all. Each 15c.

WHITE CHIEFTAIN.—A new white variety of form and habit like the pink flowered sort of similar name. The close, compact blooms are the most popular type and no other sort carries so firm a flower. A strong, sturdy growing plant, which will repay with splendid blooms, good soil and care. Each 15c.

CHAS. RAGER.—(Improved Eaton.)—Fine, large and pure white; incurving with outer petals reflexed. Sure to give satisfaction. Each 15c.

PERCY PLUMRIDGE.—Buttercup yellow. A Japanese incurved variety with bright, shining color, attracting special attention and winning prizes at leading shows. Each 15c.

DOLLY DIMPLE.—One of the most popular of the yellow sorts, because of early bloom and unique flower. A strong, vigorous plant with bloom of large size. Each 15c.

WM. TURNER.—Incurved type of bloom, solid and very large. Clear, pure white. It is valued for its splendid form, growing semi-dwarf, very strong and vigorous, and adapts itself readily to amateur culture. Each 20c; 3 for 50c.

CHRYSOLORA.—A splendid yellow-flowered chrysanthemum of perfect form and bright color. Large size and strong grower. Each 15c, 3 for 40c.

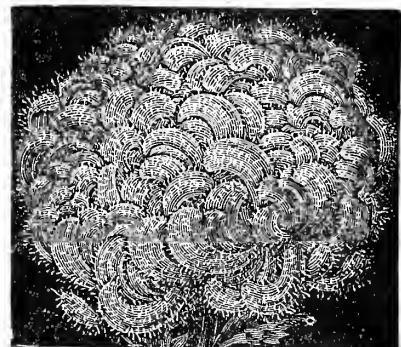
One plant each of the above four Japanese Chrysanthemums, only 50c.



EARLY SNOW



BLACK HAWK



LOUIS BOEHMER

OSTRICH PLUME SET

WHITE SWAN.—This is an exquisitely beautiful variety with grand pure white flowers of globular form; petals broad and lasting and thickly covered with fine downy hairs so much admired. Strong and vigorous plant. Each 20c.

BEAUTY OF TRURO.—The best bronze Ostrich Plume. A splendid, deep old gold color and by many named as finest of its class. Ea. 20c.

LOUIS BOEHMER.—Like above, but of a deep pink color; fine. Each 20c. One each of the three varieties Ostrich Plume for only 50c.



GLORIA

ROMAN GOLD.—As indicated by the name, it is of golden yellow color. Blooms are very large, incurved petals, close and of beautiful form. The plant is vigorous and we recommend it as a desirable yellow sort. Each 15c.

SENSATION.—A mammoth flowered variety, bright shining pink in color, strong and vigorous in growth. Very early and fine for a pot plant. Ea. 15c.

TIMOTHY EATON.—A globular Japanese incurved variety of perfect form and growth. Color pure white when fully developed. A prize winner at all shows last fall. Each 15c.

YELLOW EATON.—Immense flower of a bright golden yellow color. One of the finest varieties of this color. Each 15c.

SINGLE CHRYSANTHEMUMS

GOLDEN MENSA, yellow; **KITTY BOURNE,** white; **LADYSMITH,** pink; **BELLE OF WEYBRIDGE,** chestnut. Any of these 15c each; or will mail the entire four for 40c.

POMPOM CHRYSANTHEMUMS

These small 'mums are popular again; give showers of bloom after most other flowers are gone.

MINTA, pink.
HELEN NEWBERRY, white.
KLONDIKE, yellow.
PANAMA, deep red.
MRS. FRANK BEAU, orange.

Any of the above each 15c; per doz. \$1.00. One each of five named for 50c.

TRI-COLOR CHRYSANTHEMUM COLLECTION

Extra Early Blossoms of Large Size.

EARLY SNOW.—The earliest of the large pure white sorts. Comes into bloom in September and is valued for its splendid form and adapts itself readily to amateur culture. Each 20c, 3 for 50c.

COMOLETA.—The earliest of the mammoth yellow flowered sorts. Is easily grown and very desirable for the amateur. Each 15c.

GLORIA.—A superb extra early clear pink, offered in this collection because it blooms far ahead of most chrysanthemums. It is the earliest pink. Each 15c.

ONE EACH OF THE ABOVE THREE EARLIEST KINDS — BLOOM BEFORE FROST — POSTPAID, 35c.

WE OFFER MANY SPECIAL BARGAINS IN THE VARIOUS COLLECTIONS OF PLANTS AS LISTED BY US IN THESE PAGES.

JAPANESE CHRYSANTHEMUM COLLECTION

Our superb offer of the finest large Chrysanthemums selected from the entire list as the choicest for home blooming.

CHIEFTAIN.—A new pink sort with large blooms, close, compact flowers, strong, sturdy habit and altogether desirable. Will be satisfactory in any collection, or as a single specimen plant. Each 15c, 3 for 40c.

HARVARD.—A new crimson chrysanthemum of splendid form and magnificent full double solid flowers. Offered as the best red sort. Each 20c; 3 for 50c.

WM. TURNER.—Incurved type of bloom, solid and very large. Clear, pure white. It is valued for its splendid form, growing semi-dwarf, very strong and vigorous, and adapts itself readily to amateur culture. Each 20c; 3 for 50c.

CHRYSOLORA.—A splendid yellow-flowered chrysanthemum of perfect form and bright color. Large size and strong grower. Each 15c, 3 for 40c.

One plant each of the above four Japanese Chrysanthemums, only 50c.

WE OFFER MANY SPECIAL BARGAINS IN THE VARIOUS COLLECTIONS OF PLANTS AS LISTED BY US IN THESE PAGES.

COLEUS

Whoever has been in our large city parks will never forget the ornamental beds, curving and quaint designs and mingling arabesques of all colors—which look like varicolored rugs spread at short intervals on the smooth lawn. These are formed of Coleus. The following include the very best varieties.

PRICES.—All of the varieties of coleus named below each 10c; doz. \$1.00. Mixed varieties suitable for bedding, unnamed, 75c per dozen; \$5.00 per 100, postpaid.

ADMIRAL DEWEY.—A better bedder and a brighter color than Verschaffeltii; color a bright crimson, edged maroon.

ANNA PFISTER.—Pointed leaves with deep scalloped edges. Color bright golden yellow intermingled with green and crimson. Of dwarf and compact but spreading habit.

BECKWITH'S GEM.—A new sort of striking appearance. The large leaves have fine scalloped edges. It shows four shades of color, center maroon, bordered red; edge green with point of yellow.

BIZARRE.—A striking variety, with leaf center of bright crimson and edged green and gold.

CHAMELEON.—Combining numerous shades of color in the leaf in such way as to form a specimen of great beauty.

CRIMSON BEDDER.—Purplish crimson.

DUNEIRA.—Crimson, with maroon center and scalloped light red edge. A fine, showy variety.

FIRE CREST.—Bright crimson, with slight golden yellow edge, blotch of deep bronze in center. Splendid.

GOLDEN BEDDER.—Color yellow. This is the best yellow coleus for bedding; deep gold in the sun.

GRACE ADAMS.—Green leaf with red crested edge. An attractive variety.

JAMES BRADSHAW.—A fine, showy variety with striped leaf showing colors of crimson and yellow.

JOHN PFISTER.—Like Anna Pfister in growth but bright crimson color; edged with gold.

MRS. F. SANDER.—Large, creamy white center, bordered green; blotched crimson and purple; fine for pots.

PROGRESS.—Beautifully mottled red, green and bronze. A charming combination of colors.

MRS. JOHN BOEHMER.—Rich maroon bordered with a golden band. Large, pointed leaf.

SUNSET.—Center of leaf brownish purple, shading to crimson; edge yellow.

TRAILING QUEEN.—Is rather a choice sort. Small yellow leaf with green border.

TRAILING BEAUTY.—Of trailing habit. Serrated leaves of fiery crimson; zoned maroon edged green.

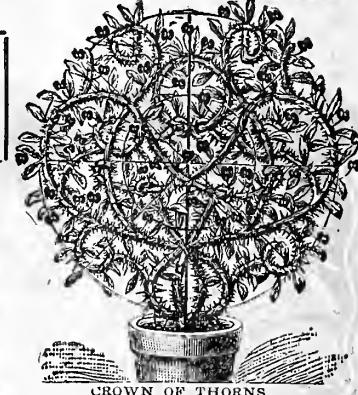
VERSCHAFFELTH.—The oldest, still one of the best; rich, velvety crimson.



NEW VARIETIES OF COLEUS.

CARPET COLEUS BED

Fifty choice plants selected by us in varieties to produce a beautiful bed of colors, prepaid for only \$2.50.



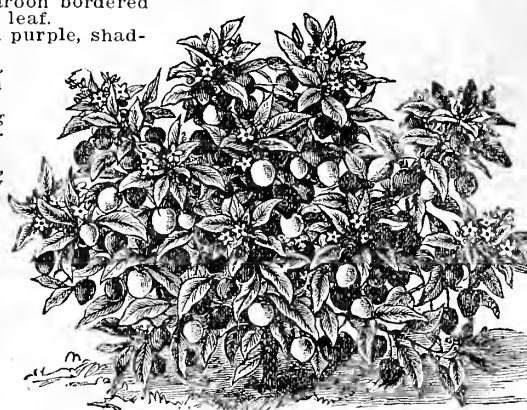
CROWN OF THORNS.

CROWN OF THORNS

EUPHORBIA.—A very curious and remarkable window plant. Strong growing plant that can be trained over any desired form. Bright scarlet flowers. An object of rare and striking beauty. Is easily grown. It grows wild in Judea, and it is said that it was from this plant that the crown of thorns was made which was worn by our Saviour, and it is therefore of special interest. Ea. 20c.

CENTAUREA

GYMNOCARPA.—(Dusty Miller.)—Dwarf, silvery foliated plant used largely for ribbon beds or borders. Ea. 10c, doz. 75c.



CHRISTMAS PEPPER

CHRISTMAS PEPPER
Surprisingly pretty house plant. A round, compact bush 12 to 15 inches in height with dark olive green leaves and covered with curious little heart-shaped fruits of bright colors—purple, white, yellow, orange and red on the same bush. Fruits are edible as small garden peppers. Each 15c.

CYCLAMEN

GIANT FLOWERED.—Foliage broad, massive, graceful, of dark green, beautifully variegated with silver and rose. Immense, fairy-like flowers; quite fragrant. In assorted colors. Each 20c, extra large size 30c.

CYPERUS

UMBRELLA PALM.—A very ornamental plant which throws up slender, round stems about two feet high, surmounted at the top by a whorl of flat, ribbon-like leaves, diverging horizontally. Should have abundance of water. Ea. 15c, larger 25c and 50c.

DRACENA

INDIVISA.—(Fountain Plant.)—Quite generally listed among palms. It is a decorative plant about two feet high, with slender, drooping, green leaves, long and narrow. Each 15c, large 25c.

ELECTRIC LIGHT PLANT

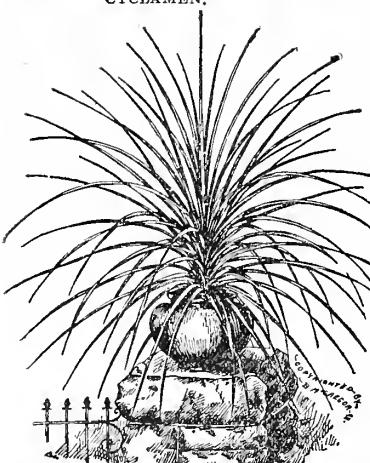
A very showy plant, belonging to the Cleome family, which blooms constantly from July until killing frosts. Desirable either for specimen plants or for bedding. Is four to six feet high. Each 10c, doz. 75c.



Cyperus or Umbrella Palm



CYCLAMEN.



DRACENA INDIVISA

FERNS

FLUFFY RUFFLES.—(*Scholzeli*)—A new upright growing variety, darker and richer in color than any other fern in our list. Fronds are as finely cut as the Whitmani or *Elegantissima* varieties, and exceeds either of these sorts in robust, hardy growth. The vigor, habit and color of this fern are so far superior to ordinary sorts that it will delight every lover of fine ferns. Each 25c.

BOSTON FERN.—(Improved Sword Fern.)—This is a wonderfully healthy, rapid growing and graceful house plant which has been in great demand everywhere, and many people buy it in preference to the finest palms or rubber plants. Thrive in all rooms, gas or furnace heat does not seem to injure it. It is one of the most beautiful and useful of house plants, being of easy culture, and its sword-like fronds, on large specimens, attain the length of 5 to 6 feet, produced in bewildering mass, arching, curving and interlacing in every conceivable direction. Each 15c; large plants 25c and 50c.

ROOSEVELT.—An improved variety of Boston Fern, much more striking and attractive than the parent sort. It produces a greater number of fronds than the Boston, appearing more compact, bushier and handsomer. Fronds have undulating pinnae, giving them a wavy appearance not seen in any other fern. Very highly recommended by experts for its hardiness and beautiful appearance. It is our choicest recommendation of Boston Ferns for individual pot growing as an indoor decoration. Ea. 20c, large 50c.

TEDDY, JR.—A smaller fern than Roosevelt, but of same type and general characteristics. A fine, compact fern that will be popular because a fine specimen can be grown in much less space than any other of the Boston type. Each 20c.

WHITMANI.—Combining all the graceful plumpness and charm of *Elegantissima*, with additional features of shape, size and growth that give it distinction and added commercial value. Whitmani is of more dwarf growth, but equalizes matters by compactness, and a wider, stockier shape. The fronds, although even more fine-cut, are more erect and less liable to revert to the original Boston type. Each 20c; large 50c; extra fine specimens \$1.00.

ELEGANTISSIMA.—This is a sport from the well known Ostrich Plume fern in which the plump peculiarity of the original form is even more distinctly developed, the side pinnae being again subdivided, making both sides of the frond equally beautiful, while at the same time the plant is of much more compact habit, growing only one-half as tall, but with fronds nearly twice as wide, making it a much more desirable plant for all purposes. They are quite rare. Each 20c; large plants 50c.

BABY'S BREATH.—(*Goodei*)—An elegant small Ostrich Plume fern. Fully equal to the best of this type in plumpness and graceful form, but far more dainty and exquisite. The bright color, feathery fronds and elegant form make it a very notable specimen in any collection. A variety of recent introduction which gives promise of great popularity. Each 20c, large 50c.

ASPARAGUS FERNS.—Both the *Asparagus Plumosus Nanus* and *Sprengeri*, commonly known as Asparagus Ferns are illustrated and described on page 85. Price, either variety, each 15c; large plants each 25c.

OSTRICH PLUME FERN COLLECTION

BABY'S BREATH.—Dainty Ostrich Plume fern of finest habit.

ELEGANTISSIMA.—More delicate and finely divided than the above.

ROOSEVELT.—The compact, wavy type of the original Boston or Sword Fern.

WHITMANI.—The compact, wavy type of the Ostrich Plume varieties.

ONE EACH FOUR FINE OSTRICH PLUME FERNS POSTPAID TO YOUR ADDRESS FOR ONLY 60c.

DAINTY SMALL FERNS

JAPANESE FERN.—(*Onychium Japonicum*)—A very graceful small variety growing in similar form to the well known Asparagus Fern. Each 15c.

MAIDEN HAIR FERN.—(*Adiantum Cuneatum*)—Very popular. The most graceful and useful of all for cut flower work. Each 15c.

HOLLY FERN.—(*Cryptomium Falcatum*)—Rather broad, dark, glossy green foliage. Quite easily grown, very ornamental. Each 15c.

MOSS FERN.—(*Selaginella Emiliiana*)—Also called Lycopodium. Has delicate lace-like foliage. Fine for fern dishes and always beautiful. Each 15c.

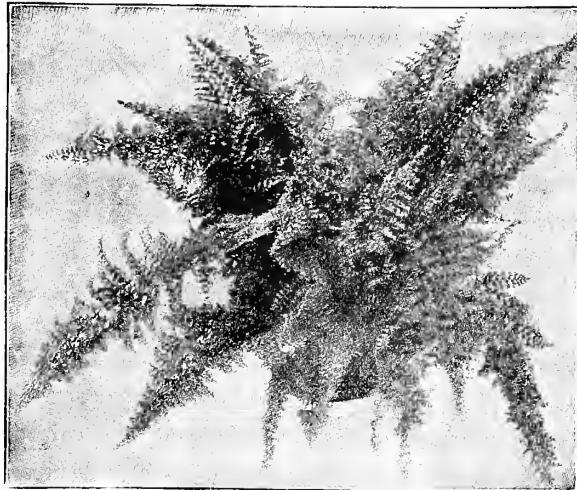
CRESTED FERN.—(*Pteris Wimsetti*)—One of the most popular of the small ferns. Striking lanceolate foliage; upright growth. Each 15c.

DAGGER FERN.—(*Aspidium Tsussimense*)—A miniature sword fern. Specially adapted to small ferneries or fern dishes. Each 15c.

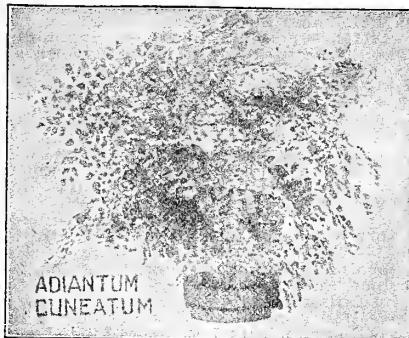
SILVER FERN.—(*Pteris Victoriae*)—One of the newer sorts with lovely foliage, each leaf of which has a silver variegation through the center. Each 20c.

DAINTY FERN COLLECTION

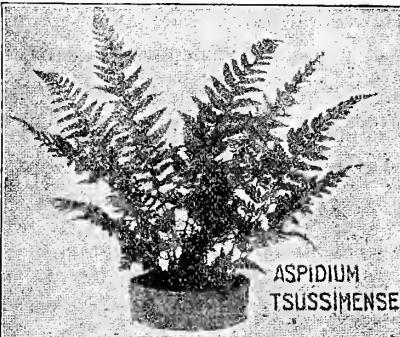
One each of the above seven fine table ferns, a most beautiful collection, only 85c.



FLUFFY RUFFLES FERN



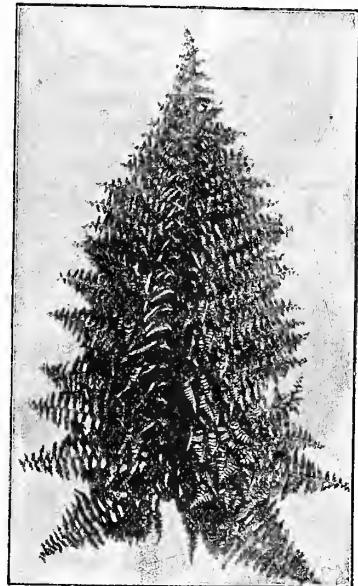
ADIANTUM
CUNEATUM



ASPIDIUM
TSUSSIMENSE



ONYCHIUM
JAPONICUM



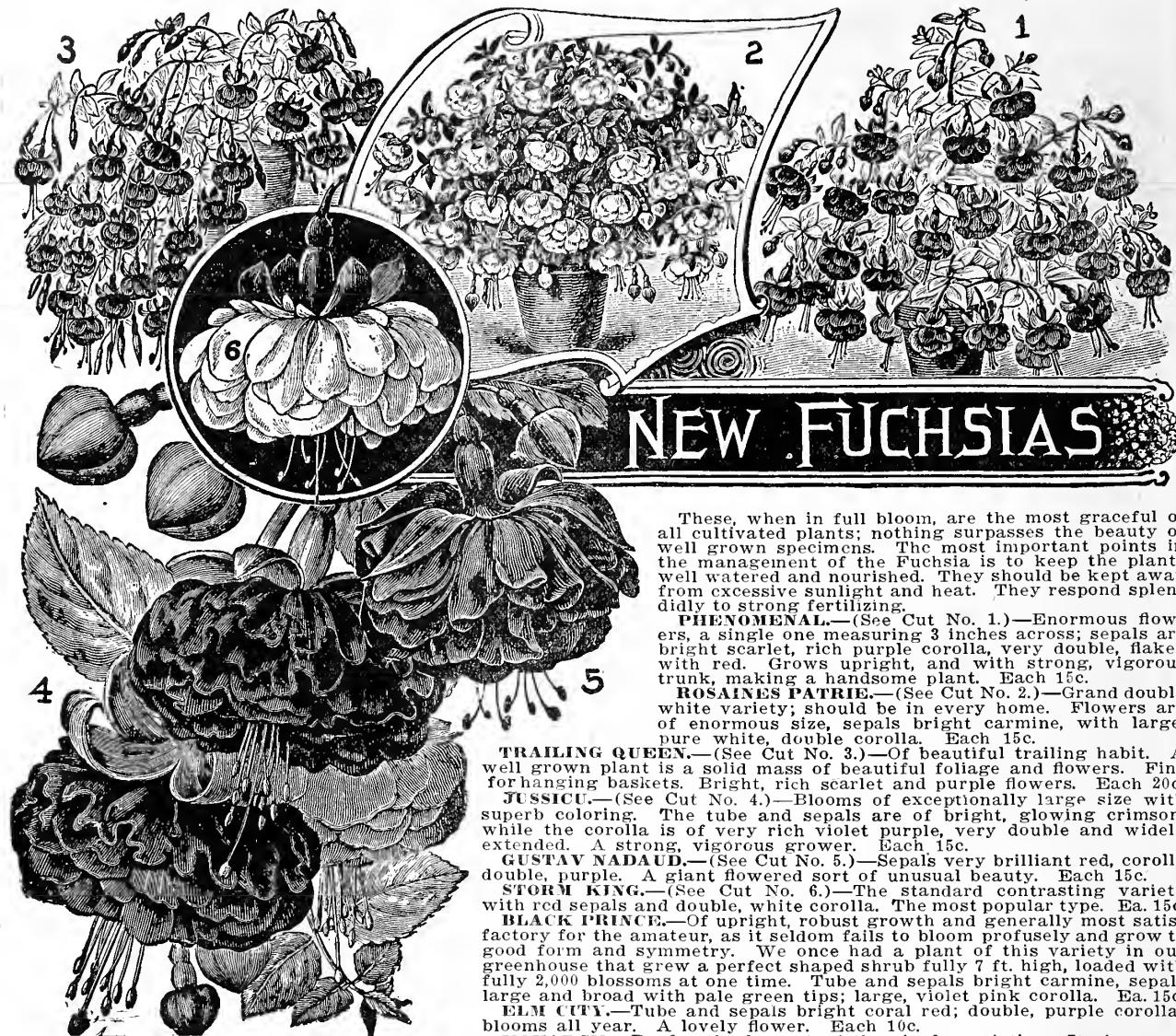
FROND OF ELEGANTISSIMA FERN



AIR PLANT

AIR PLANT

An exceedingly beautiful green, feathery, plumy moss, prepared from dried seaweed. Has every appearance of a most delicate fern and retains its beauty and fresh appearance for an indefinite period. Is much used in small baskets and fern dishes, usually containing two to four bunches. Our stock is far superior to the grade commonly sold. Per bunch 25c; 3 bunches for 60c.



NEW FUCHSIAS

These, when in full bloom, are the most graceful of all cultivated plants; nothing surpasses the beauty of well grown specimens. The most important points in the management of the Fuchsia is to keep the plants well watered and nourished. They should be kept away from excessive sunlight and heat. They respond splendidly to strong fertilizing.

PHENOMENAL.—(See Cut No. 1.)—Enormous flowers, a single one measuring 3 inches across; sepals are bright scarlet, rich purple corolla, very double, flaked with red. Grows upright, and with strong, vigorous trunk, making a handsome plant. Each 15c.

ROSAINES PATRIE.—(See Cut No. 2.)—Grand double white variety; should be in every home. Flowers are of enormous size, sepals bright carmine, with large, pure white, double corolla. Each 15c.

TRAILING QUEEN.—(See Cut No. 3.)—Of beautiful trailing habit. A well grown plant is a solid mass of beautiful foliage and flowers. Fine for hanging baskets. Bright, rich scarlet and purple flowers. Each 20c.

JUSSICU.—(See Cut No. 4.)—Blooms of exceptionally large size with superb coloring. The tube and sepals are of bright, glowing crimson, while the corolla is of very rich violet purple, very double and widely extended. A strong, vigorous grower. Each 15c.

GUSTAV NADAUD.—(See Cut No. 5.)—Sepals very brilliant red, corolla double, purple. A giant flowered sort of unusual beauty. Each 15c.

STORM KING.—(See Cut No. 6.)—The standard contrasting variety with red sepals and double, white corolla. The most popular type. Ea. 15c.

BLACK PRINCE.—Of upright, robust growth and generally most satisfactory for the amateur, as it seldom fails to bloom profusely and grow to good form and symmetry. We once had a plant of this variety in our greenhouse that grew a perfect shaped shrub fully 7 ft. high, loaded with fully 2,000 blossoms at one time. Tube and sepals bright carmine, sepals large and broad with pale green tips; large, violet pink corolla. Ea. 15c.

ELM CITY.—Tube and sepals bright coral red; double, purple corolla; blooms all year. A lovely flower. Each 10c.

MONARCH.—By far the largest of the single varieties. Its immense blooms are a very dark purple. Each 10c.

SPECIOSA.—Greatly prized for its profuse blooming qualities. Sepals are more elongated than other sorts, and of soft rosy pink color. Ea. 15c.

SUNRAY.—A novelty fuchsia because common varieties are wanting in the variegated foliage which adds so much to the beauty of Sunray. The colors of the sunset, clear yellow, golden bronze, and red, are combined in the most effective way to make a pretty plant. Flower is pink or deep rose sepals with bright carmine corolla. Each 20c.

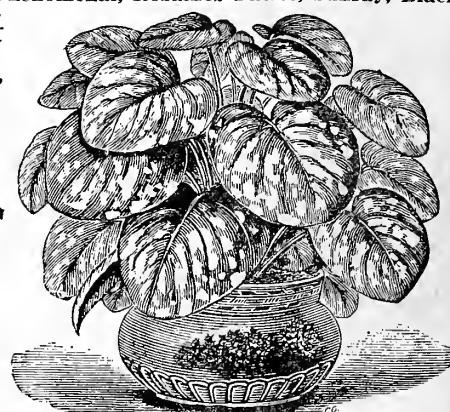
PHENOMENAL FUCHSIA BARGAIN

One Choice plant each of Phenomenal, Rosaines Patrie, Sunray, Black Prince and Speciosa, giving a wide range of types and colors which will delight every flower lover.

**FIVE PLANTS, POSTPAID,
FOR ONLY 65c.**



GREVILLEA OR SILK OAK



Farfugium Grande.

FEVERFEW

LITTLE GEM.—Is a vigorous, strong growing plant bearing large clusters of unusually large flowers, which are pure snowy white without any yellow shading or center. Fine for bedding, or for cemeteries, producing a succession of bloom. Each 10c, dozen \$1.00.

FORGET-ME-NOT

Everyone loves the charming little Forget-Me-Not and it seems strange that it is not more often seen in our gardens. They are easily grown and will bloom freely and thrive year after year. Each 10c, dozen \$1.00.

FARFUGIUM

GRANDE.—(Leopard Plant.)—A beautiful ornamental foliage plant for planting in open border, or in shaded position; leaves 4 to 8 in. in diameter, of thick, leathery texture, dark green with bright yellow spots. Each 25c.

GENISTA

SHOWER OF GOLD.—A most desirable plant. The drooping branches are covered with delicate sage-green foliage and every twig is tipped with a long raceme of exquisite pea-shaped blossoms of a pure canary color, almost hiding the foliage. Each 15c.

GREVILLEA

SILK OAK.—One of the quickest growing of ornamental house plants. Easy to manage, grows rapidly and is pretty in all stages of its growth. With its long, drooping, silky foliage, it reminds one of a palm or fern. Young growths are light bronze color, tips covered with soft down resembling raw silk. Each 15c.

SINGLE GERANIUMS

Geraniums are the most easily grown and satisfactory of all flower plants and only the rose can vie with them in popularity. We have about 200 varieties growing at our place and test a large number of new sorts every year. After careful comparison we have selected the following as the best:

AUREOLE.—(Mad. Bruant).—Fancy flowered sort; remarkable colors. The plant is loaded with blooms and each floret is large, center being white and beautifully veined with carmine lake, radiating into a handsome aureole, each petal being bordered with bright solferino. Fine pot plant and a constant bloomer. Each 15c.

EMILE GOBART.—One of the scarlet sorts of special merit. Dwarf grower and very free flowering. Has beautiful foliage with light shading. Each 20c.

ALICE OF VINCENNES.—A charming novelty which has a border of intense scarlet forming a band around the body color of rosy pink, heavily veined scarlet; center white. Each 15c.

BLACK PRINCE.—A very dark, rich, velvety crimson. The nearest black known in single geraniums. Each 15c.

BIRD'S EGG.—(Abel LeFrance).—Our magnificent geranium novelty. The flowers are very large, of perfect form. Ground color white, with rosy dots on lower petals. Foliage is slightly zoned. Grows finely. Each 20c.

BARIOLEGUE.—Dwarf, vigorous growing and free flowering variety. A beautiful composite flower. Color is rose, lower petals blotched crimson, the upper blotted white. Each 20c.

CURIOSO COLLECTION

Seven unique and beautiful geraniums, unusually attractive and will be appreciated.

Abel La France.—Dotted pink.
Col. Darde.—Cerise pink.

Curiosa.—Dotted pink double.

Blue Beauty.—A violet blue.

Carusa.—Bright scarlet double.

A. Ballif.—Double variegated.

Leopard.—Ivy leaf double, dotted crimson.

SEVEN CHOICE KINDS, POST-PAID, ONLY \$1.00.



SOUVENIR
DE MIRANDE

MAXIME KOVALEVSKI.—A brilliant orange scarlet. A fine plant and probably the best of the single varieties for pot culture. The flowers are round, of splendid form. A novelty of great beauty. Each 20c.

SOUVENIR DE MIRANDE.—Handsome and most satisfactory. Nicely formed, round florets; upper petals cream white, with distinct salmon rose border; lower petals salmon rose streaked with pure white. Free flowering; splendid blooms. Each 15c.

SNOW QUEEN.—Is the grandest single pure white geranium in existence. It is of vigorous and healthy growth; blooms profusely, plant being loaded with immense trusses of blooms. Do not turn pink, even in sunny weather. Each 15c.

TELEGRAPH.—A splendid flower. Mammoth dark green foliage with chocolate zone; bears enormous trusses of beautiful deep orange cerise. The general effect of color is very pleasing. Plant is very desirable in vigor and habit of growth. Each 15c.

YVETTE PROST.—Fine large flowers and strong trusses. Color violet rose shading to white center. A very striking and beautiful blossom. Good habit, vigorous grower. Each 15c.

TRICOLOR GERANIUM BED

One dozen each of three shades of color, consisting of standard sorts that will stand the sun and produce continuous bloom all summer. We will send one dozen double white, one dozen double pink and one dozen double red, we to choose the varieties, but we will give you only such as will prove satisfactory. Planted closely, the pink in the front row, white next, and the red forming the background, you will have a gorgeous bed of flowers.

36 plants as above from 2½-inch pots, \$3.00, postpaid, or \$2.50 by express, not prepaid. The same in larger plants from 4-inch pots, by express, not prepaid, \$6.00.

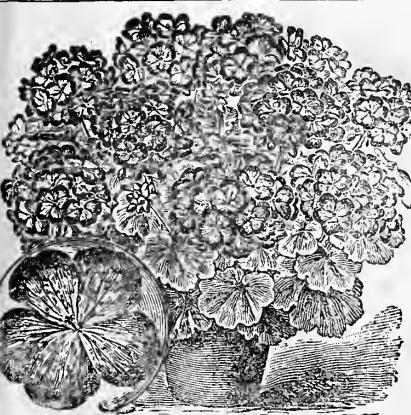
AUREOLE GERANIUM COLLECTION

A selected list of choice single geraniums. One plant each of Aureole; Mrs. E. G. Hill, salmon; Maxime Kovalevski, brilliant orange; Souvenir de Mirande; Alice of Vincennes, pink; Gen. Leonard Wood, white and crimson; a half dozen different shades, only 70c.

FAVORITE DOUBLE GERANIUM COLLECTION

LaFavorite, Beauty Poitevin, Double Dryden, S. A. Nutt, Apple Blossom, Trego and Mrs. F. Perkins.

One each of the above, giving a range of colors in the standard sorts which are universal favorites, for 75c postpaid. This collection from 4-inch pots, large plants, by express, not prepaid, for only \$1.25.



AUREOLE

ELECTRIC GEM.—A fine sort, producing very large flowers on strong trusses. Color is brilliant scarlet. Each 15c.

GEN. LEONARD WOOD.—One of the best of the single geraniums. Plant strong and vigorous. Flower bright carmine crimson, with white center. The general effect is very beautiful. Each 15c.

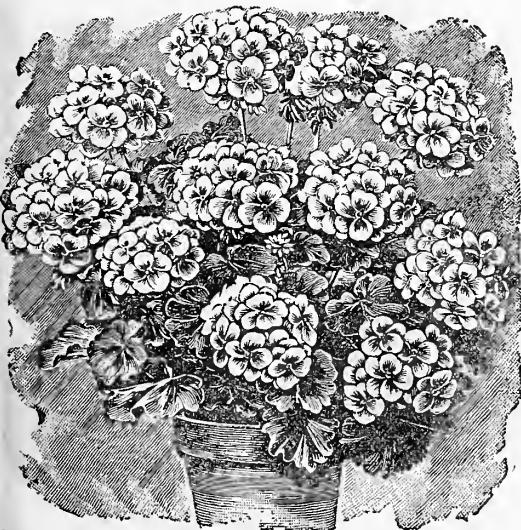
MRS. E. G. HILL.—Distinct and pleasing shade of salmon with light shading at the center. Flowers extra large, of splendid habit and vigorous growth. Each 15c, dozen \$1.50.

BOHEMIAS.—An English round-flowered sort of unusual strength and vigor. Handsome and distinct. Flowers have pure white center, shading to a distinct margin of crimson rose. Very large trusses produced freely. Each 15c.

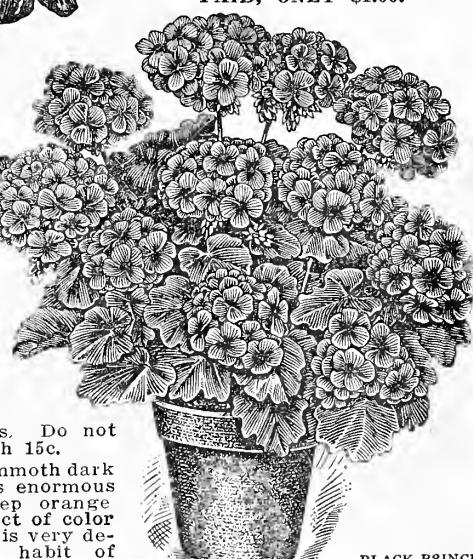
PHOEBE.—A dwarf, compact growing sort, extremely free flowering, seemingly every joint producing a spike of bloom. Color deep rose. It is its free flowering habit that renders it so popular, although the color is also an attractive feature. Each 15c.

RICHMOND BEAUTY.—A magnificent new single variety. Color crimson scarlet with large white feather in two upper petals. Each 15c.

RADIUM.—Most magnificent, well formed flowers, produced in enormous trusses in the greatest profusion. The color is a brilliant shade of orange scarlet; very effective when massed in beds; foliage large and of fine texture; habit splendid, luxuriant, branching, and robust. Certainly one of the best. Each 15c.



BIRD'S EGG



BLACK PRINCE

DOUBLE GERANIUMS

A. BAILIFF.—A beautiful composite flower of varying shades. One of the most profuse bloomers and most vigorous growing of the newer sorts. See illustration in lower right hand corner. Each 20c.

ANNA BROWN.—A new variety of deep cerise pink color, with fine, large truss. Extra free bloomer and fine bedding or pot plant. Ea. 20c.

APPLE BLOSSOM.—(Mrs. Lawrence.)—Shining salmon, tinted white. Free flowering; dwarf, compact habit. Extra fine as pot plant. Ea. 15c.

ALPHONSE RICARD.—Bright vermillion scarlet; trusses strong and upright. Free bloomer, of special merit for pots and bedding. Ea. 15c.

ALPINE BEAUTY.—A most beautiful semi-double variety with pure white flowers. One of the finest in the list, both in habit of growth and freedom in blooming. Each 15c.

BEAUTY POITEVIN.—A great favorite and conceded one of the best semi-double bedding sorts. Color salmon pink, shading to clear salmon in the center. Each 15c.

BLUE BEAUTY.—A new color; a beautiful violet or purplish crimson with a blue sheen over the surface. Three upper petals have a spot of vermillion near the base. Each 25c.

BERTHA DE PRESLEY.—A beautiful light pink. Stands the sun without fading. Will be sure to give satisfaction, either for beds or in pots. Each 15c, dozen \$1.50. By express, not prepaid, per 100 \$6.00. Large plants from 4-inch pots, per dozen \$2.50.

CARUSO.—One of the newer varieties that will prove popular. Color bright scarlet, large truss, large florets and vigorous habit. Each 20c.

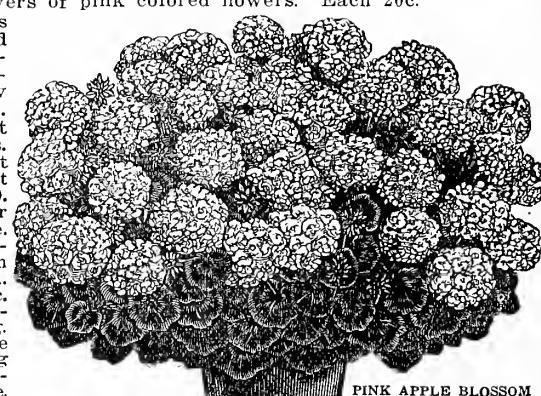
COL. DARDS.—Cerise or cherry pink; a bright, attractive shade. A promising new sort for lovers of pink colored flowers. Each 20c.

CURIOSO.—Double "Bird's Egg" geranium. Blooms dotted pink on white, and are striking and beautiful. (See "Curioso" collection of choice new varieties, next page.) Ea. 20c.

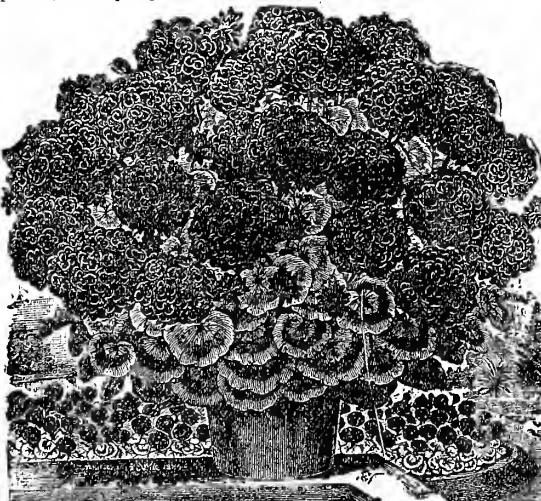
DAYBREAK.—The finest pink geranium offered by us. Color is bright pink and it blooms more freely than most sorts. Each 15c, dozen \$1.50.

DOUBLE DRYDEN.—Color combination very attractive. Center coral white, shading lilac to edge of petals, which are soft, glowing crimson. Choice as a pot plant. Ea. 15c.

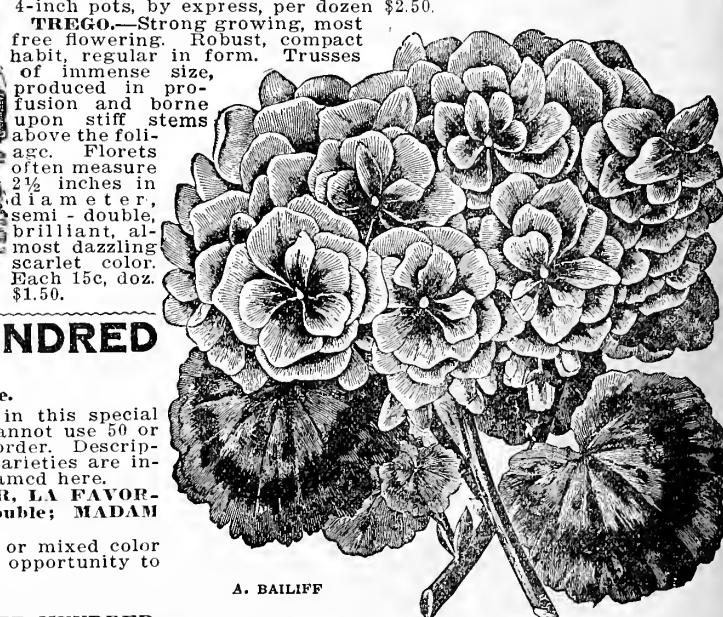
EL CID.—This is a particularly choice sort for bedding. The flower is double, of fine form and borne on strong trusses. Color is bright scarlet, a rich, dazzling shade. Each 15c, doz. \$1.50. By express, not prepaid, 100 for \$6.



PINK APPLE BLOSSOM



SCARLET BEDDER



A. BAILIFF

GERANIUMS BY THE HUNDRED

Customer to pay express charges.

Fifty or More at the One Hundred Rate.

The customers can select from varieties named in this special offer in such numbers of each as wanted. If you cannot use 50 or 100, perhaps you can get a neighbor to take part of order. Descriptions under name as placed in the list. No other varieties are included in this special offer but the five varieties named here.

S. A. NUTT, crimson double; **SCARLET BEDDER,** **LA FAVORITE,** white double; **APPLE BLOSSOM,** pink double; **MADAM SALLEROI,** for edging.

Just the varieties for outdoor bedding for single or mixed color effects, and in this offer you have the best possible opportunity to fill your beds at reasonable cost.

FROM 2½-INCH POTS, \$6.00 PER HUNDRED.

FROM 4-INCH POTS, \$12.50 PER HUNDRED.

FANCY LEAVED GERANIUMS

GRACE PAGE.—A standard bedding variety which is identical with the old standard dark crimson S. A. Nutt geranium except in foliage, which is beautifully variegated. Nothing in geraniums can surpass the beauty of this variety with its large trusses of double crimson flowers against their variegated background. Of vigorous growth and an exceedingly profuse bloomer. Leaves are of dark green, and each bears a border of pure snowy white. Well adapted for pot culture. Each 20c, per dozen \$2.00.

MRS. POLLOCK.—Magnificent. Green leaf disc, overlaid by beautiful bronze red, belted with bright crimson, outwardly margined with golden yellow. Very distinct in its markings, and one of the most satisfactory of fancy geraniums. Each 15c.

WM. LANGGUTH.—This new silver leaved geranium is a beautiful variety. The plant is short, stocky growth, and the beautiful deep green leaves are bordered with a broad, pure snow white band, so that it is handsome even when not in bloom. It is, however, free flowering for a fancy foliage variety, and the flowers are double. Clusters are extra large and a bright red color, showing magnificently against the white foliage. Each 20c.

MAD. SALLEROI.—A very compact variety of silver leaf geranium. Fine for massing or bordering; thrifty, leaves green, edged with white. Has a peculiar manner of growth which renders it of special value for edgings or ribbon work. Each 10c, dozen \$1.00.

CRYSTAL PALACE GEM.—Yellow, with green disc; fine bedder. One of the oldest of the fancy leaved sorts, but popular because of the brightness of the foliage. Each 15c.

MOUNTAIN OF SNOW.—Finest of this class for ribbon lines or massing; center of leaf bright green, margin broadly marked silver white; single scarlet flowers. Each 15c.

DISTINCTION.—Round green leaves with clear black circle. This dark foliated sort is fine in contrast planting among the silver leaved varieties. Each 15c.

HAPPY THOUGHT.—A tricolored geranium with dark green foliage; creamy white center with dark band about the light zone; flowers bright scarlet. Each 15c.

GOLDEN CIRCLE.—Green foliage; golden yellow edging; flower scarlet. Each 15c.

MRS. PARKER.—A grand new silver leaved variety with double pink flowers. A unique novelty. It is a good bloomer and foliage is fine combination with its markings of green, bronze and white. Each 15c.

HAPPY THOUGHT COLLECTION.—Happy Thought, Golden Circle, Mad. Salleroi, Crystal Palace Gem, Mountain of Snow, Mrs. Pollock. Six of the finest fancy leaved sorts in splendid contrast for only 75c, postpaid.

FRAGRANT COLLECTION.—Nutmeg, Rose, Balm, Pepper, Lemon and Skeleton. A half dozen of the sweetest of the scented varieties for only 70c, postpaid.

IVY LEAF COLLECTION.—Caesar Franck, Jean DeArc, Chas. Turner, Eden Marchi. One each of the four choicest ivy leaf varieties for only 50c, postpaid.



SCENTED GERANIUMS

SHRUBLAND PET.—One of the best of the scented sorts. Strong yet pleasant fragrance. Will please lovers of this type. Each 15c.

NUTMEG.—Small leaves with nutmeg perfume. Each 10c.

OAK LEAVED.—Beautiful foliage resembling oak leaves, black center with green border. Each 15c.

ROSE SCENTED.—The broad leaf. This is the most popular of scented geraniums. Each 15c.

SKELETON LEAVED.—Leaves are very finely cut, rose fragrance. Each 15c.

BALM.—Delicious balm fragrance. Each 15c.

LEMON.—A nice little plant of bushy growth with delightful lemon fragrance to the leaves. Each 10c.

MRS. TAYLOR.—A scarlet flowered rose geranium. The blooms resemble the pelargonium, but are smaller and of bright scarlet color. Blooms constantly. Each 15c.

PEPPER.—Strong fragrance, moderate size leaf, easily grown. Ea. 15c.

PEPPERMINT.—A rare variety with thick "hairy" leaves and refreshing peppermint fragrance. It is one of the most popular of the scented geraniums. Each 20c.

IVY LEAVED GERANIUMS

CAESAR FRANCK.—Double as a Crimson Rambler-rose. Specialists claim this to be the best Ivy Geranium. Color soft, rich crimson scarlet, shaded rose at base of petals. Foliage clean, waxy green. Vigorous, quick growing and strong. Finest for baskets, vases, etc. Each 15c.

LEOPARD.—A splendid ivy leaf geranium with white blossom dotted red. It is a typical "Bird's Egg" variety and will be prized because of the beautiful composite flower which will appeal to everyone with its dainty and delicate coloring. Each 20c.

ETINCELENT.—Beautiful scarlet; extra large flowers. Very double and will be satisfactory. Each 15c.

EDEN MARCHI.—Handsomest of the ivy leaved sorts. Has enormous sized flowers; color beautiful salmon rose, slightly shaded violet. It is an improvement on the Charles Turner. It is a strong, free grower, producing flowers at almost every joint which are full double and perfect in form. Each 15c.

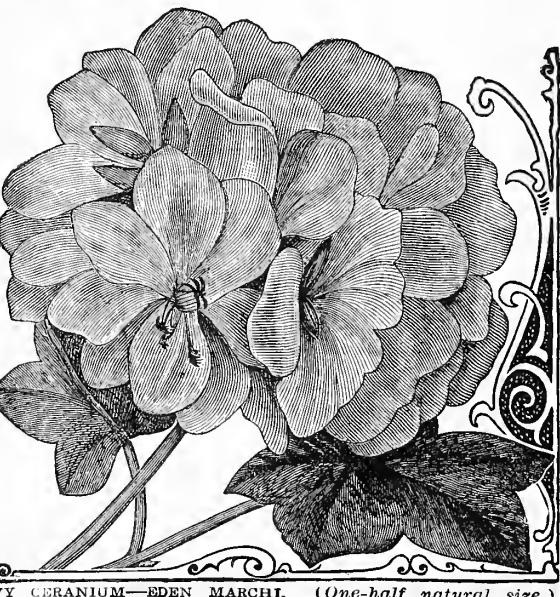
CHARLES TURNER.—Very double, and is without doubt one of the handsomest ivy geraniums ever introduced; florets two and a half inches across. The color is a deep, bright pink, approaching scarlet in color. Each 15c.

JEAN D'ARC.—Very large and finest white in existence. Perfectly double, white as snow; flowers literally cover the plant when in full bloom. Each 15c.

P. CROZY.—A hybrid between the Zonales and Ivies. Color soft, bright scarlet with veinings of maroon. Each 15c.

CORDEN'S GLORY.—Fine, bright scarlet; large, bold, full flowers; constant bloomers; one of the very best. Each 15c.

ALLIANCE.—A beautiful novelty. A hybrid between an ivy and a zonal geranium. Flowers large, semi-double and produce fine trusses. Exquisite shade of delicate lilac white, upper petals feathered and blotched bright crimson rose. Each 15c.



IVY GERANIUM—EDEN MARCHI (One-half natural size.)

MANY OF THE MOST POPULAR VARIETIES OF GERANIUMS WILL BE FOUND ON THIS PAGE. EXCELLENT VALUES OFFERED.

HELIOTROPE

These are universal favorites on account of their delightful fragrance. They bloom equally well as bedding plants in summer, or as pot plants in the house during the winter.

BUISSON FLEURI.—Semi-dwarf. Very large trusses of large flowers. Color violet; star-shaped eye. Each 15c.

PRINCE CHARMANT.—Beautiful foliage and large trusses of mauve blue flowers. A novelty of merit. Each 15c.

LORD ROBERTS.—Very large trusses of blue flowers. Each 15c.

FLORENCE NIGHTINGALE.—Very large trusses of dark lavender flowers. Each 15c.

SNOW WREATH.—Superb large clusters deliciously fragrant flowers, nearly white. Ea. 15c.

HELIOTROPE COLLECTION

The fragrance of these lovely blossoms will perfume the whole house. One each of the five varieties named above for 60c.

HIBISCUS

GRANDIFLORA.—A large, shrub-like, woody plant bearing immense single red flowers. Each 15c.

PEACHBLOW H. BISCUS
PEACHBLOW.—One of the finest free flowering plants for either pot culture or the open ground. Flowers very large, double and of a charming rich, clear pink, with deep crimson center. Does not always appear double when first in bloom, but as the plant ages it takes on the double form. Each 15c.

IMPATIENS

SULTANA.—Beautiful plant producing waxy, bright flowers of rosy scarlet almost continuously, winter and summer; suitable for pot or garden culture. Compact growth; almost a perpetual bloomer. Each 10c.

HOLSTII.—Strong, robust growing sort with brilliant vermillion colored blossoms. One of the best. Each 15c.

PINK BEAUTY.—Well named, the color being a most beautiful shade of clear pink. Each 15c.

WHITE LADY.—Fine pure white; completes list and adds necessary shade in desirable contrast. Ea. 15c.

IMPATIENS COLLECTION.—One plant of each of the above four fine varieties for only 40c, postpaid.

JASMINE

MAID OF ORLEANS.—A beautiful plant of easy culture, fine grower, good bloomer, very fragrant and of elegant waxy white appearance. Each 20c.

NIGHT BLOOMING.—(*Cestrum Parqui*)—World famous variety, producing greenish white flowers incessantly. Strongly fragrant after dark. Ea. 15c.

CAPE JASMINE.—(*Gardenia Florida*)—Pretty low growing evergreen shrub. Thick, glossy green leaves, waxy white double flowers of delicious sweetness; valued for winter flowering in house or conservatory. Each 20c.

GRANDIFLORUM.—An old favorite variety and most satisfactory. Valuable for winter blooming. Flowers white, star-shape. Fragrant. Each 15c.

REVOLUTUM.—A climbing variety with deep yellow single flowers and glossy foliage. A beautiful plant and readily grown. Each 15c.

One each of the five Jasmines named above, only 70c.

JERUSALEM CHERRY

An old-fashioned plant grown for its showy, berry-like fruits which remain on plant for a long time. Used generally in window gardening but will grow quite large if given room. Each 15c.

LANTANA

We consider this a most satisfactory plant for outdoor bedding and blooming all winter in the house. Flower resembles the Verbena, borne on a woody, bush-shaped plant. The flowers embrace all shades of orange, sulphur, lilac, red, pink, white, etc., changing from one distinct color to another as they increase in age and development.

JAVOI.—The best, largest and freest blooming white variety. Everyone will be pleased with it. Each 15c.

PERFECTION.—The only Lantana having variegated foliage. Is unusually handsome. Outside row of florets are pink with rose center; inside florets very light sulphur yellow, orange center. Blooms freely. Each 15c, dozen \$1.50.

GOLD CUP.—A dwarf, compact grower. Bears very pretty lemon yellow flowers with golden yellow center. Recommended for fine form and masses of bloom. Ea. 15c.

WEEPING.—A beautiful trailing variety; is very desirable for planting in hanging baskets, vases, pots or open ground. Bears an immense profusion of lovely clear pink flowers from early summer until late fall. Everyone delighted with it. Ea. 15c.

RADIATION.—Semi-dwarf. Color brilliant red with orange yellow center. Distinct and beautiful blending of color. Each 15c.

AMIEL.—Semi-dwarf, very compact; fine bloomer; umbel and floret fine size. In color reddish orange, yellow center. Of fine form and a mass of bloom. Each 15c.

VERSICOLOR.—When first open flower is cream yellow with red center. Cream gradually changes to pink, but the flower is fine at all times. Each 15c.

Radiant Lantana Collection

RADIATION, GOLD CUP, JAVOI, PERFECTION and WEEPING LANTANA, one each of the five, for only 60c, postpaid.



NEW MAMMOTH. FLOWERING HELIOTROPE

HARDY HYDRANGEAS

(Described as shrubs on page 109.)

ARBORESCENS.—The new Snowball Hydrangea. Each 15c, large plants 35c.

PANICULATA GRANDIFLORA.—The well known hardy sort. Each 15c, large plants 30c.

POT HYDRANGEAS

OAKSA.—A Japanese variety used extensively for Easter decorations. It produces enormous trusses of intense pink flowers. Make excellent specimen plants for the porch or lawn. Blooms the entire season. Each 15c, large plants 50c and 75c each.

THOMAS HOGG.—Its immense trusses of flowers are at first slightly tinged with green, and change to the purest white. Each 15c.

FRENCH HYDRANGEAS

AVALANCHE.—Splendid large white flower. Easy to grow; remarkably free flowering. Each 15c.

LA LORRAINE.—At first pale rose, turning to bright pink. Large blooms. Each 15c.

MME. E. MOUILLERE.—White; extra size. Awarded medal at National Flower Show at Boston. Each 20c.

MOUSSELLINE.—Light amber pink turning brighter as the flower ages. Of extra size. Each 20c.

E. G. HILL.—One of the finest of pot hydrangeas. Superb in every way. Color white. Each 20c.

FIVE FRENCH HYDRANGEAS 75c, POSTPAID.

LEMON VERBENA

A universal favorite, invaluable for its fragrant leaves. They will retain their fragrance for years when dried. Very popular with the ladies for storing with handkerchiefs or other apparel to which it imparts in some measure its delicate fragrance. A splendid plant for hedges and as a plant for the garden or for pots it is equally valuable, its fine sprays of foliage and delicious fragrance making it desirable for bouquets, etc. In good rich soil each plant will cover a space of three to four feet in diameter. Each 15c; doz. \$1.50.

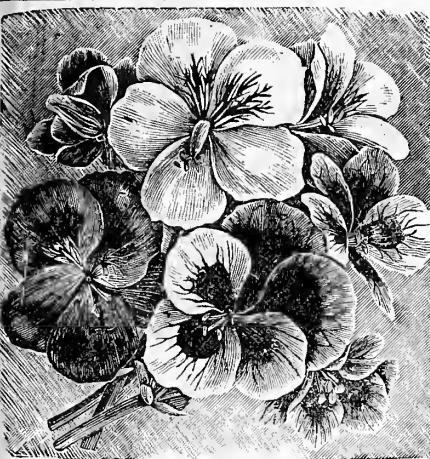


WEEPING LANTANA



LEMON
VERBENA

A. BLANC



PANSY GERANIUM PANSY GERANIUM

Beautiful flower belonging to the Pelargonium class. Flowers are of medium size and have white throat. Each petal is shaded toward the center with a rich lavender pink and a dark maroon blotch in the center. Of easiest growth, dwarf in habit, and as it requires little attention it is invaluable as a window plant. Colors and markings most extraordinary. Ea. 15c.

PELARGONIUMS

Commonly known as Lady Washington geraniums, and the large flowering sorts are the most beautiful of geraniums.

EASTER GREETING.—Enormous flowers, bright amaranth red, each petal being marked with large black blotch. Remarkable for its long blooming season, producing its flowers very early in the spring, continuing to late fall. Each 25c.

THE MAID.—A fine sport of Easter Greetings producing reddish carmine flowers with five very regular black blotches, bordered with purplish carmine. Each 25c.

GARDENER'S JOY.—Ground color apple blossom pink, two upper petals blotched carmine brown, the florets are $3\frac{1}{2}$ inches in diameter. It is of a dwarf nature, very sturdy. Each 35c.

GLORY.—Florets and clusters of a very large size, ground color blue, very much like the Cattleya orchid. The upper petals contain two large purple magenta red spots, distinctly veined. Entirely new color in pelargoniums. Each 35c.

EASTERN STAR.—Ground color wild rose pink with five large reddish brown blotches, edged scarlet lake. Each 25c.

LADY WASHINGTON COLLECTION
One each of the above fine Pelargoniums,
postpaid for \$1.10.



FANTASA
DOUBLE PETUNIA

pink in this flower, the general effect is a bright, pleasing pink. Each 15c.
SNOW QUEEN.—Elegance and purity are most strongly conveyed by this lovely flower. A never-ending succession of pure white flowers. Each 15c.

PALMS

The most elegant and highly decorative of all plants and the low prices at which they are now offered place them within reach of all. Following are most desirable for ordinary indoor culture.

LATANIA BORBONICA, or Fan Palm.—One of the most popular varieties grown, prized especially for its beautiful large fan-shaped leaves of deep glossy green. The character leaves appear the second year. Each 25c.

KENTIA BALMOREANA.—This is considered one of the hardiest and best in cultivation. A rapid grower. Each 35c.

ARECA LUTESCENS.—A truly graceful and beautiful palm. Strong, upright grower with long, finely cut leaves. Easy to grow and very satisfactory. Each 35c.

PHOENIX CANARIENSIS.—A popular sort and will be found a desirable member of the palm collection. The leaves are feather-like. Each 25c.

KENTIA FOSTERIANA.—A fine variety of the Kentia class. Vigorous and will prosper with ordinary care. Ea. 35c.



LATANIA BORBONICA PALM

PALM COLLECTION

One each of the first five stately palms for \$1.25, postpaid.

PLUMBAGO

CAPENSIS.—There is no plant in our greenhouse that has caused more exclamations of delight than these beautiful, heavenly blue Plumbagos. They are most excellent pot plants, flowering freely at all times of the year. Flowers are borne in large clusters and are exceedingly beautiful in color. Of very easy culture, growing in any situation freely as geraniums. Ea. 15c.

CAPENSIS ALBA.—The white variety of the above, with which it is identical except color. Each 15c.

PRIMROSE

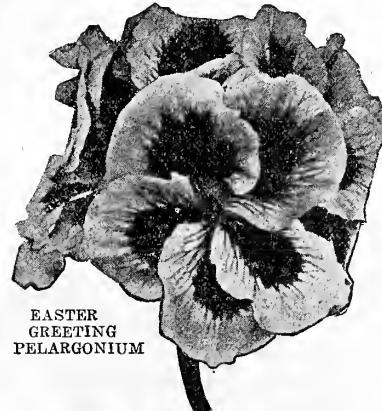
MEXICAN.—Perpetual bloomer. It has blossoms 2 to 3 inches across, of beautiful colors. Each blossom keeps perfect many days before fading and when it drops others are out to take its place. Each 10c.

OBCONICA.—A lovely perpetual blooming primrose. Flowers are of rose lilac shading white. Each 15c.

CHINESE.—Most popular flower for winter blooming. Our cut gives an idea of its wondrous beauty. Flowers are all shades of color, distinct and beautiful markings. Each 15c.

THE BABY.—(*Primula Forbesi*).—Forms a dense rosette of fleshy leaves from which spring flowering stems, 12, 15 and even 20 inches tall, supporting whorls of dainty flowers of a delicate rosy lilac with eye of pale gold; not more than a half inch in diameter, but produced abundantly. Each 15c.

ON EACH, 4 PRIMROSES, 45c.



EASTER
GREETING
PELARGONIUM



Peperomia.

PEPEROMIA

SILVER STRIPED.—A beautiful ornamental basket or pot plant for the home. Grows vigorous and thickly massed. The leaves are wax-like, thick and fleshy, and distinctly variegated white and green. Easily grown and thrive in living rooms. Each 15c.

DOUBLE PETUNIAS

Extremely popular because of striking contrasts in the colors of each flower and because they are always in bloom. Difficult to grow from seed as they produce only a percentage of double blossoms, while if plants are purchased they will invariably prove satisfactory.

CLIO.—A splendid shade of purple. Flowers extra size, of nearly solid color and extremely striking appearance. Each 15c.

FANTASA.—Handsome double white and purple petunia. Striking variegation. It is really beautiful. Each 15c.

PINK BEAUTY.—Although many shades of

blossoms, while if plants are purchased they will invariably prove satisfactory.

pink in this flower, the general effect is a bright, pleasing pink. Each 15c.

SNOW QUEEN.—Elegance and purity are most strongly conveyed by this lovely flower. A never-ending succession of pure white flowers. Each 15c.



CHINESE PRIMROSE

MARGUERITE DAISY

WHITE.—A French improvement on the old White Marguerite which has for years been so popular. Is much larger and will produce ten times as many flowers. Each 10c, dozen \$1.00.

BLUE.—(Agatha.)—A strikingly beautiful flowering plant, producing abundance of clear, sky-blue flowers. Plants are fairly loaded with flowers, which are very desirable for cutting. Each 10c.

MRS. F. SANDER.—A superb new variety of double white Marguerite, so lovely as to be a firm favorite wherever known. Owing to continuous, free blooming habit and beautiful lasting blooms on long stems, is peculiarly adapted for beds or for use as cut flowers. Ea. 15c.

SOLIEL D'OR.—A very popular sort with flowers of a very pretty canary yellow color. It blooms freely and continuously. Each 15c.

QUEEN ALEXANDRA.—A great improvement on the White Marguerite, having larger flowers, which are produced in greater abundance, many flowers coming perfectly double. Each 15c, doz. \$1.25.

PANSY PLANTS

Pansy plants are quite a specialty with us and we sell immense numbers of them every year. Our plants are grown from the very best quality of seed and are strong and vigorous and have beautiful, large, velvety flowers of all shades and colors known in pansies. Extra large, strong plants of **American Giant** and **International Mixed** at 60c per dozen, 4 dozen for \$2.00, postpaid.

INTERNATIONAL MIXED PANSIES



PONDEROSA LEMON

Nothing has ever caused half the commotion that this wonderful lemon has. It is a true ever-bearing variety. On a plant six feet high no less than eighty-nine of the ponderous lemons were growing at one time. It was a beautiful sight to see. The tree was blooming and at the same time had fruit in all stages of development, from the size of a pea to the ripe fruit, showing it to be a true ever-bearer. Blossoms waxy white and as fragrant as orange blossoms. Fruit has been taken from the tree weighing over four pounds. The lemons have a very thin rind for such large fruit. It is the juiciest of all lemons, makes delicious lemonade, and for culinary purposes unexcelled. It is not uncommon to make twelve pies from one lemon. It fruits when quite small and makes a lovely house plant. It fruits freely the second year. Strong plants ea. 20c, postpaid. Two-year-old plants 50c each.

TROPICAL FRUIT BARGAIN

Everyone is interested in the manner of growth of the tropical plants, and we offer above some of these which are suited for house culture, believing they will be popular.

Ponderosa Lemon, Otaheite Orange, Surinam Cherry and Strawberry Guava.

ONE STRONG, THRIFTY PLANT OF EACH OF ABOVE FOR ONLY 70c, POSTPAID.

SURINAM CHERRY

A very ornamental plant at all times, as both flowers and fruits are attractive in color shades. Fruits are cherry red color and are useful and desirable for culinary purposes. Growth of plant is shrub, like orange and lemon listed on this page, and readily grown in pots. Each 20c.



SURINAM DWARF CHERRY



PONDEROSA LEMON

STRAWBERRY GUAVA

A useful and ornamental pot plant; wonderfully productive and will prove equally popular with the lemon and orange listed on this page. Has dark, shining green foliage, with fruits of striking claret shade, about the size of a hulled walnut. Fruit is used for dessert and makes a most attractive jelly. It will have buds, blossoms and fruit in various stages of development on the plant at one time. Each 20c.

We will please you with the strong, thrifty plants we send to customers.



OTAHEITE ORANGE

OTAHEITE ORANGE

An extra fine plant, with glossy green leaves, the true fragrant orange bloom, and abundant little bright oranges that will hang on the little bush like balls of gold for six months after they are ripe. With good culture they are never out of fruit from one year's end to another, and at least two-thirds of the time are in flower also. In beauty, grace and fragrance there is nothing like its delicate, leafy sprays of bloom. Each 20c. Large size, 50c.

OLEANDER

These old-fashioned shrubs are becoming popular again. No plant makes more handsome specimens in tubs for verandas or in the yard. Flowers are usually double when mature.

ROSEA.—Large pink flowers, borne profusely. A popular sort. Each 25c.

LILLIAN HENDERSON.—Flower pure white; fine, sturdy plant. Each 25c.

LUTEA.—The comparatively rare yellow flowered variety. Each 25c.

One plant each of the three colors, 65c.



STRAWBERRY GUAVA

RUBBER TREE

(*Ficus Elastica*).—This is the true rubber tree from which is secured the rubber of commerce. Grows slowly in temperate climate, and under artificial conditions, and is adapted for house or conservatory. Highly valued everywhere for their tropical appearance. Leaves very large, thick and leathery and of a beautiful shining green color. It endures the dry air of living rooms remarkably well. Everybody likes it. They are difficult to propagate and will remain high in price. Each 50c, postpaid. Larger sizes \$1 and \$1.50, by exp., not prepaid.

SALVIA

AMERICA.—The salvias are among the most brilliant and showy bedding plants. This variety is semi-dwarf, growing about 2 ft. high with long spikes of dazzling crimson flowers. Each 15c, doz. \$1.50. Large size, 4 in. pots, ea. 25c, doz. \$2.50.

IMPROVED SPLENDENS.—Large, tall and fine, bright crimson flower and dark, rich green foliage. Each 15c, doz. \$1.50.

SNOWSTORM.—A white flowered, tall growing sort. A few among a bed of scarlet salvias are unique. Ea. 15c, doz. \$1.50.

PURPLE PRINCE.—A beautiful purple shade of this popular flower. Fine for mixed bed. Each 15c, doz. \$1.50.

ST. LOUIS.—Foliage green, with white spots. Blooms bright scarlet, very large. Attractive. Each 15c, doz. \$1.50.

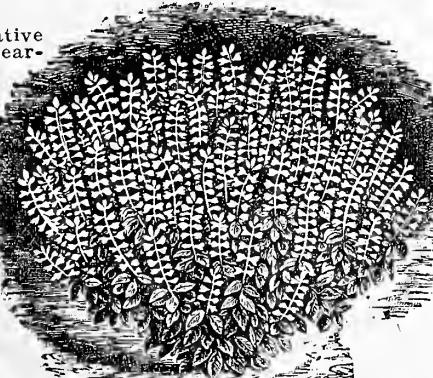
ALFRED RAGANEAU.—An improved splendens type somewhat more dwarf in growth, surpassing the old type in vigor and beauty. Each 15c, dozen \$1.50.

ONE PLANT EACH, SIX VARIETIES OF SALVIA, 75c.

SANSEVERIA

SANSEVERIA

ZELANICA.—There is scarcely a decorative plant listed that is more striking in appearance, and certainly none other that will stand as much downright neglect. It will grow in a dark, cool room or stand on the mantel in a heated sitting room. Will stand gas or dust and requires little water yet remains thrifty as ever. Similarly beautiful, as well as easily grown. Erect, rigid, sword-like leaves, which are thick and leathery, dark green or, beautifully striped crosswise with white. Each 15c, large plants 40c.



AMERICA SALVIA

STROBILANTHUS

ROYAL PURPLE.—An excellent bedding plant and a beautiful foliage plant for pot culture. Forms a compact bush 18 inches high, with leaves 6 to 9 in. long, of beautiful metallic purple, shading into light rose with a light green margin, a combination unapproached by any other plant. Flowers violet blue, borne in immense racemes. Each 15c.

VERBENAS

Everybody likes Verbenas, as no one can help enjoying the sight of a nice bed covered with dark green leaves and brilliant blossoms. We have finest flowered varieties which bloom freely; finest of colors. We can furnish separate sorts, such as red, pink, white, blue, purple, striped, etc., or nicely assorted, just as you prefer, at 10c each, \$1.00 per doz. See special offer on last cover page.

MOTH VERBENAS

WHITE.—Beautiful new climbing plant. The habit of growth is extremely graceful, and a plant trained up at the side of a window or on a trellis presents a lovely sight of light green, feathery foliage, and a splendid profusion of pure white sprays of flowers resembling Sweet Peas in form. Easily grown. Each 15c.

PINK.—A beautiful new sort, similar to above, except that the flowers are a clear pink. Each 15c.

WINDOW GARDEN SUPPLIES

These goods are sent by express or freight, customer paying charges, unless otherwise noted. Note mailing weight and postage required by parcel post.

LED SNAPPER PLANT FOOD.—A concentrated food for house plants, registered in Iowa. Trial size (10 oz.) 30c, postpaid. Regular size (24 oz.) Plant Food 18 oz. Plant Tonic, with booklet of instructions), postpaid 60c, or by express 12½ lb. bag with tonic and booklet by exp. \$1.50.

ULPHO-TOBACCO SOAP.—For a cheap, effective, clean and harmless insecticide this is unexcelled. Quickly exterminates all insect life on plants and flowers, surpassed for rose bushes. It rids the house of cockroaches and is a superior wash for dogs and all animals. Prevents poultry lice. Three-ounce cake, sufficient for 1½ gals. solution, by mail, postpaid, 13c; by express 10c. Eight ounce cake, for 4 gals. solution, by mail, postpaid, 28c; by exp. 20c. Six eight-ounce cakes, by exp., \$1.00. If to go by mail add postage. Weight of six cakes 4 lbs.

FISH OIL SOAP.—(Usually called Whale Oil Soap.)—An excellent preparation for plants infested by vermin. Also used against fungus diseases and will keep banks of trees free from borers and other bark destroyers. Lb., by express, 25c. To go by mail, add postage for mailing, weight 2 lbs.

LOWER POTS.—The following prices per dozen are for pots and saucers: 1. 60c; 5-in. 85c; 6-in. \$1.20; 7-in. \$2.00; 8-in. \$3.00; 9-in. \$4.00. Orders for saucers must amount to at least \$1.00. Cannot go by mail.

PAPER FLOWER POTS.—Made of heavy waterproof paper. Fine for growing delicate plants, pansies, asters, etc. By using these you do not have to disturb roots of plants when setting in the open. 2½-in., by exp., doz. 10c, 100 for 65c; 4-in., by exp., doz. 15c, 100 for \$1.00; 4-in., by exp., doz. 25c, 100 for \$1.75. If to go by mail add postage, weight per doz 1 lb., per 100 3 lbs. Write for quantity prices.

COLLAY'S SPRINKLERS.—Made of pliable rubber with metal cap. Large holds about one pt., small size about one-thrd pt. Indispensable for floral work. Excellent for washing the foliage of house plants, and sprinkling clothes, etc., each \$1.10, small 75c, postpaid.



RUBBER TREE

STEVIA

SERRATA.—A pretty flowering plant. Is largely grown by florists in pots for blooming in the fall and winter. Plants are of upright growth 18 inches in height, producing numerous sprays of small white florets of delightful fragrance. Not hardy and therefore should be potted in the fall for winter blooming. Ea. 15c.

VARIEGATED.—A beautifully variegated green and white leaved variety of Stevia of great value for ribbon beds and borders. Each 15c, doz.

THE TWO STEVIAS FOR 25c.

SWAINSONIA

WHITE.—Beautiful new climbing plant. The habit of growth is extremely graceful, and a plant trained up at the side of a window or on a trellis presents a lovely sight of light green, feathery foliage, and a splendid profusion of pure white sprays of flowers resembling Sweet Peas in form. Easily grown. Each 15c.

PINK.—A beautiful new sort, similar to above, except that the flowers are a clear pink. Each 15c.



STROBILANTHE



RADIANCE

stems and continuous bloom. Flowers creamy white, delicately tinged with golden yellow and bright rose color. Ea. 15c; two-year-old plants 35c.

GOLDEN BEDDER.—The finest golden yellow tea rose. A strong, vigorous and healthy plant and a profuse bloomer. By some it is called Star of Lyons. Each 15c; two-year-old plants 40c.

GRUS AN TEPLITZ.—One of the brightest colored roses known. When first opened it is dark, rich crimson, quickly changing to a bright scarlet. Blooms continually. Each 15c; two-year-old plants 35c.

JONKHEER J. L. MOCK.—A novelty rose of great merit. Large carmine flowers on strong, stiff stems, growing upright and vigorous. Each 15c; two-year-old 35c.

KAI SERIN.—Decidedly the finest white ever-blooming hardy garden rose. Soft, pearly white, lightly tinted with lemon at center. Free, continuous bloomer. Buds of faultless shape, developing into large, very double flowers of exquisite fragrance. A general favorite with rose growers. Each 15c; doz. \$1.50; two-year-old each 40c.

KILLARNEY.—Killarney is fast pushing out the other sorts with the city florists and the cut flowers sell at about fifty per cent higher prices, owing to the fact that the buds are especially long and the color of the rose is a peculiarly bright, living pink, more beautiful than any other pink rose that has ever been on the market. A free bloomer, easily grown, of strong, healthy constitution. Each 15c; dozen \$1.50. Large two-year-old plants each 35c; dozen \$3.50.

METEOR.—One of the standard varieties of hybrid tea or ever blooming roses. It is remarkable for the strong growth, constant and abundant blooming. The color is bright, rich, velvety crimson, a delightful shade and the most popular of colors. The flowers are large, double, and it is popular because it combines all desirable qualities of a choice rose. Each 15c; two-year-old plants 35c.

MILADY.—A rich crimson rose, by florists now given preference to Richmond, which has long held first place as a popular cut rose. A most lovely flower. Each 15c; two year old plants each 35c.

RED KAISERIN.—Equal to the white rose of this name, which is a favorite because of its hardiness, and habit of growth. The blooms are extra large, of fine form, and hold their charm when full blown. We recommend the two Kaiserins for beauty. Each 15c; two-year-old plants 35c.

RADIANCE.—A brilliant rosy carmine flower which is fine in form, large and full, with cupped petals. Free in growth and a profuse bloomer. Each 15c; two-year-old plants each 40c.

RICHMOND.—A strong rival of the American Beauty. It is a beautiful scarlet crimson, as free blooming as any tea rose, and flowers are extraordinarily fragrant. A standard variety because of its merit. Each 15c; two-year-old plants each 35c.

RHEA REID.—A magnificent rose described by an enthusiastic rose lover as being "as large as American Beauty, as double as La France and as red as Richmond." Color is vivid scarlet-crimson, and the flowers are marvels of beauty, large, bold and splendid substance. Very hardy and of thrifty growth. Each 20c, two-year-old plants each 40c.

SUNBURST.—A splendid large rose, ranking with American Beauty and Killarney in size and form. Color a beautiful coppery yellow, shaded lighter; a brilliant flower. Each 15c; two-year-old plants each 40c.

WHITE KILLARNEY.—Exactly like Killarney, except in color. It is one of the best garden roses, hardy in this climate with slight protection. The color is pure, snowy white; blooms are large and buds long and pointed. Each 15c; two-year-old plants 35c.

EVERBLOOMING ROSES

We consider these not only the most popular, but also the most satisfactory of all flowers, and therefore we make roses a leading specialty and are now devoting to them more space in our greenhouses and more land in our fields than ever before. Our plants of the several varieties are mostly grown on their own roots and are strong healthy and vigorous. We have taken great pains in preparing this list, which represents the choicest selections from nearly a thousand varieties, and we are sure every one will prove satisfactory. The two-year-old plants offered in this class of roses are mostly pot growing plants. Roses sent by mail or express prepaid in perfect condition, to the most distant parts of the United States, and we guarantee safe arrival. Directions for culture sent with every package.

BESSIE BROWN.—Blooms are very large in size, full double and of perfect shape; color creamy white flushed and tinged with pink. Blooms freely. Illustration on page 101. Each 15c; two-year-old plants 35c.

BRIDE.—A fine pure white cut flower rose. Very double. Buds are of very large size, carried high and erect; are unsurpassed for purity and whiteness. Each 15c; two-year-old plants 35c.

BRIDESMAID.—Like the Bride, but of a lovely shade of clear pink. Thousands of this sort are grown every year for cut flowers, and it is also very desirable for summer bedding out of doors. Each 10c; two-year-old plants 35c.

COQUETTE DE LYON.—Color light canary yellow, a desirable and delicate shade, which is quite popular. Blooms are extra large, finely formed, deep and double. A very desirable bedding variety. Each 15c; two-year-old plants 35c.

CHAMPION OF THE WORLD.—The champion bloomer. It is claimed that one plant will produce more flowers during the year than ten plants of any tea rose. The color is a deep, rich, rosy pink, a most beautiful color, equalled by but few varieties; really one of the best roses. Each 15c; two-year-old plants 35c.

ETOILE DE FRANCE.—Clear red or crimson velvet shade. It is without doubt the finest red hybrid tea rose in our long list of varieties. Each 20c; two-year-old plants 40c.

FRANCISCA KRUGER.—A strikingly beautiful rose of deep coppery yellow; quite unique, and distinct from all others. Of large size and very symmetrical. Each 15c; two-year-old plants 35c.

FRIEHEIR VON MARSHALL.—

Dark carmine, buds long and pointed, flowers large, full and of perfect imbricated form. Each 15c; two-year 35c.

GOLDEN GATE.—A beautiful free blooming and healthy flower; has long

blooms creamy white, delicately tinged with golden yellow and bright rose color. Ea. 15c; two-year-old plants 35c.

GOLDEN BEDDER.—The finest golden yellow tea rose. A strong, vigorous and healthy plant and a profuse bloomer. By some it is called Star of

Lyons. Each 15c; two-year-old plants 40c.

GRUS AN TEPLITZ.—One of the brightest colored roses known. When

first opened it is dark, rich crimson, quickly changing to a bright scarlet. Blooms continually. Each 15c; two-year-old plants 35c.

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A general favorite with rose growers. Each 15c; doz. \$1.50; two-year-old each 40c.

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and the cut flowers sell at about fifty per cent higher prices, owing to the fact that

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mond." Color is vivid scarlet-crimson, and the flowers are marvels of beauty, large,

bold and splendid substance. Very hardy and of thrifty growth. Each 20c,

two-year-old plants each 40c.

SUNBURST.—A splendid large rose, ranking with American Beauty and Killarney

in size and form. Color a beautiful coppery yellow, shaded lighter; a brilliant flower.

Each 15c; two-year-old plants each 40c.

WHITE KILLARNEY.—Exactly like Killarney, except in color. It is one of the best

garden roses, hardy in this climate with slight protection. The color is pure, snowy

white; blooms are large and buds long and pointed. Each 15c; two-year-old plants 35c.

KILLARNEY



FRANCISCA KRUEGER



MRS. ROBERT PEARY

EVERBLOOMING COLLECTION

A half dozen different color shades in ever-blooming roses for outdoor bedding. They are the hardiest of this class and will winter out of doors in the north if protected by covering. Furnish a delightful show of lovely flowers the entire summer. Description in regular list.

Champion of the World.—Pink.

Kaiserin.—White.

Grus an Teplitz.—Bright scarlet.

Etoile de France.—Deep crimson.

Bessie Brown.—White, tinged pink.

Coquette de Lyon.—Canary yellow.

ONE EACH OF THESE 6 CHOICE SORTS POSTPAID 75c, LARGE TWO-YEAR-OLD PLANTS \$1.50.



The Cochet roses are exploited by many specialists as the best roses for outdoor planting. They are everblooming and distinctly beautiful, and we offer you in our collection the choicest varieties of this popular type.

MAMAN COCHET.—Buds large and pointed, while the open flowers are extra large, double and bloom all the time. Color is a rich, clear pink, changing to silvery rose. Each 15c. Two-year-old plants 35c.

RED COCHET.—Like all of these the buds are long and pointed; flowers are full and perfectly double; color rich, rosy crimson, bright and glowing; a good winter bloomer. Each 15c. Two-year-old plants 35c.

WHITE COCHET.—An exact counterpart of the beautiful Maman Cochet except that it is of purest white. Very desirable. Each 15c. Two-year-old plants 35c.

YELLOW COCHET.—Deep sulphur yellow. True Cochet type; most desirable of yellow roses for outdoor planting. Each 20c. Two-year-old 40c.

ONE PLANT EACH OF THE FOUR COCHET ROSES FOR 50c. TWO-YEAR-OLD PLANTS, ONE OF EACH FOR \$1.25.

FOUR LA FRANCE ROSES

La France roses are certainly the nearest perfection of flowers. Distinctive characteristics of the set are the true La France fragrance and beautiful form. Prized for their profusion of bloom.

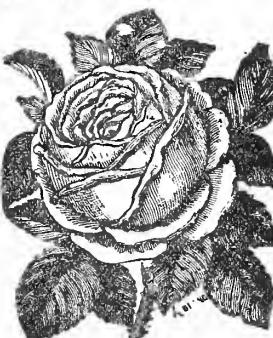
RED LA FRANCE.—Very free flowering. Deep rose pink hue. Very large, double and of superb form. Each 10c; two-year-old 35c.

LA FRANCE.—Beautiful form in bud and full bloom; very large, full and globular; a constant bloomer; in color pink or silvery rose—a satiny sheen, as it has been termed. Each 10c; two-year-old plants 35c.

WHITE LA FRANCE.—Identical with La France, except color. It is pearly white, sometimes tinted fawn. Each 10c; two-year-old plants 35c.

STRIPED LA FRANCE.—Is a rich creamy pink with silver gloss, beautifully streaked and etched with carmine. Each 15c; two-year-old plants 35c.

SET OF FOUR LA FRANCE ROSES ONLY 40c. TWO-YEAR-OLD PLANTS \$1.25.

BESSIE BROWN
See page 100.

BEAUTIFUL HARDY ROSES

The most satisfactory of all flowering plants, making a permanent improvement which is constantly growing in value. The lower priced roses below named are growing plants in from 2 to 2½-inch pots, while the larger sizes are strong, hardy, mostly outdoor grown, two-year-old plants which have been kept dormant. These can be planted outside early in the spring before it is safe to set out plants that are growing in pots, and are ready to begin blooming almost as soon as set out. Should our stock of dormants be exhausted we will send strong two-year-old plants which have been kept growing in pots. Following are the most satisfactory varieties. Remember, we prepay postage or express charges on plants at prices named.

AMERICAN BEAUTY.—One of the best and most valuable roses, both for garden and house culture. Color rosy crimson, exquisitely shaded and very handsome. Extra large, full flowers, fine buds. A good bloomer. See our American Beauty Collection. Each 15c, two-year-old plants 40c.

BARON DE BONSTETTEN.—Rich, dark red, passing to a deep, velvety maroon, nearly black. A large flower, very highly scented. Included in our Favorite Collection on page 100. Each 15c, two-year-old plants 35c.

CAPTAIN CHRISTY.—Is very double; fresh, delicate pink. A splendid sort offered as part of our Favorite Collection. Each 15c, two-year-old 35c.

CLIO.—Color flesh pink, shaded rose in center. Large flower of fine form. We think so highly of it we include it in the Favorite Collection. Each 15c, two-year-old plants each 35c.

COQUETTE DES ALPS.—Flowers are large and full, finely formed and pure white. Profuse bloomer. Each 15c, two-year-old plants each 30c.

DINSMORE.—We cannot praise this enough. Always in bloom, with large, imbricated, and very double flowers of dazzling crimson scarlet color; rich, spicy fragrance. Of compact, bushy growth. Fine for beds and very hardy. Each 15c, two-year-old plants each 35c.

FRAU KARL DRUSCHKI.—Beautiful white variety often called White American Beauty, because its habit and growth resemble that popular sort. Offered in Iron Clad Collection. Each 20c, two-year-old plants 35c.

GENERAL WASHINGTON.—A brilliant crimson, very rich and perfectly double; is a free bloomer. Each 15c, two-year-old plants each 30c.

GLORIE DE MARGOTTIN.—Flowers very large, symmetrical, very full and deliciously sweet scented. Color is clear dazzling red. One of the most brilliant roses. Free bloomer; vigorous grower. Ea. 15c, two-year 35c.

GENERAL JACQUEMINOT.—One of the grandest of roses; nothing can surpass them in beauty. Color a rich, dazzling scarlet, shaded with deep, velvety crimson; a superb, glowing color. See Favorite Collection on page 100. Each 15c, two-year-old plants each 35c.

J. B. CLARKE.—Awarded gold medal of National Rose Society. A hybrid perpetual of unique color, being an intense scarlet shaded with deep, velvety crimson-maroon. Flowers very large and fine. One of our Iron Clad Collection. Each 20c, two-year-old plants each 40c.

JOHN HOPPER.—Flowers are large, regular and full; color brilliant rose, shaded a rich crimson. Very sweet. Each 15c, two-year-old plants each 35c.

JUBILEE.—A grand, hardy, perpetual blooming variety. In color dark crimson, shaded velvety maroon; flowers sometimes 6 in. in diameter. Each 15c, two-year 35c.



GEN. JACQUEMINOT

MRS. JOHN LAING.—For outdoor planting is undoubtedly the finest. A beautiful soft pink; delicious fragrance; very double and of large size. A constant bloomer. See Iron Clad Collection. Each 15c, dormant plants each 35c.

MRS. R. G. SHARMAN-CRAWFORD.—Very full and double flowers of deep, rosy pink. Beautiful. Each 15c, two year old plants each 30c.

MAGNA CHARTA.—A splendid rose with extra large, rosy red flowers, beautifully flushed violet crimson. See Favorite Collection. Each 15c, two-year-old plants each 30c.

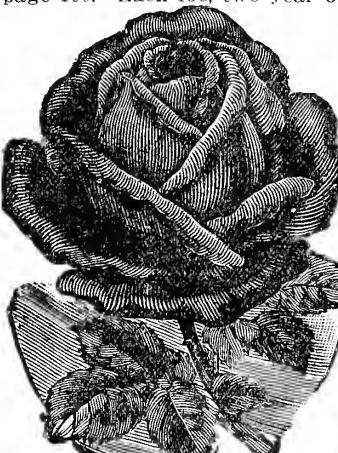
MADAME PLANTIER.—Flowers borne in great profusion; are pure white; hardy as an oak, and certain to grow. Blooms in June. See Favorite Collection, page 100. Each 15c, two-year-old plants each 25c.

PAUL NEYRON.—Double flowers of shining carmine pink. Largest rose known, and one of the most prolific. An exceptional grower, making shoots 4 to 5 feet high. Offered in our Iron Clad Collection. Each 15c, two-year-old 35c.

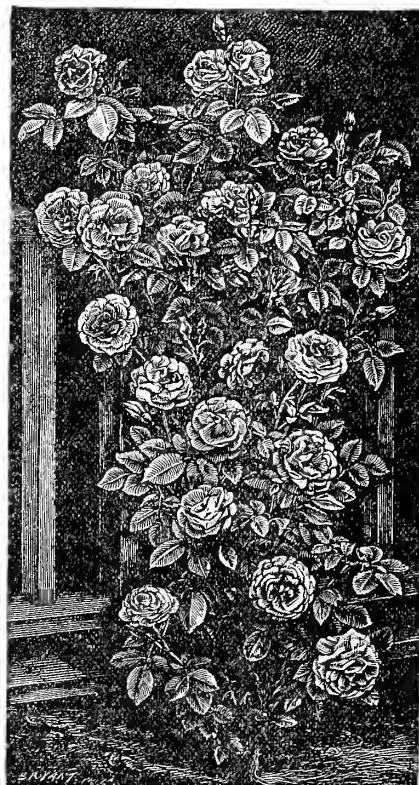
TRIUMPH.—Superb new variety from England, where it is sometimes known as "Hugh Dickson." Color crimson flamed scarlet. Blossom extra large, highly perfumed. Each 20c, two-year-old plants each 35c.

ULRICH BRUNNER.—A rich, glowing crimson scarlet; flowers of exquisite shape. The deep red in our Iron Clad Collection. Each 15c, two-year-old 35c.

VICKY'S CAPRICE.—Perfectly hardy. Flowers large, soft, satiny pink, distinctively striped and dashed with white and carmine. See Favorite Collection, page 100. Each 15c, two-year-old plants each 30c.



ULRICH BRUNNER



AMERICAN BEAUTY ROSE.

GIANT IRON CLAD ROSE COLLECTION

PAUL NEYRON.—Beautiful shade of deep pink.

FRAU KARL DRUSCHKI.—One of the very largest blooms among white roses.

ULRICH BRUNNER.—Glowing scarlet. Form and size equal to the best.

THE IRON CLAD ROSE COLLECTION OF FIVE CHOICE, HARDY PLANTS, POSTPAID, 60c. TWO-YEAR-OLD PLANTS, \$1.50.

AMERICAN BEAUTY ROSE COLLECTION

Who has not heard of the American Beauty, the rose famed in poetry, story and song? The cut flowers are frequently sold during the winter at \$10 to \$25 per dozen. What flower lover has not hoped some day to have a "garden of roses" with American Beauties galore? This collection has proven very popular.

AMERICAN BEAUTY, WHITE AMERICAN BEAUTY, BLACK BEAUTY, STRIPED BEAUTY, PINK BEAUTY and MOSS BEAUTY. By mail, prepaid.

SPECIAL PRICES ONE STRONG PLANT EACH OF ABOVE FOR 75c. ONE LARGE TWO-YEAR-OLD PLANT OF EACH FOR \$1.75.

FAVORITE HARDY ROSE COLLECTION

SEVEN CHOICE VARIETIES, SEVEN DIFFERENT COLORS

Described among our list of hardy roses on page 99. They are truly magnificent and will be satisfactory for permanent planting. Includes the following sorts: **CLIO**, flesh pink, shaded rose; **GEN. JACQUEMINOT**, deep scarlet; **BARON DE BONSTETTEN**, rich, velvety maroon red; **VICK'S CAPRICE**, soft, satiny pink, dashed white and carmine; **CAPTAIN CHRISTY**, a bright pink; **MAGNA CHARTA**, large, rosy red; **MADAM PLANTIER**, profuse blooming white.

ONE STRONG PLANT OF EACH, POSTPAID, ONLY 75c. LARGE TWO-YEAR-OLD PLANTS \$2.00.

Baby Rambler Rose

This type of roses has created a furor among rose planters in America and we list below four varieties in collection that our customers may have contrast of color necessary for best effects. Hardy, They are very fine for permanent beds and are well adapted for decorative landscape effects.

CRIMSON BABY RAMBLER.—The very best bedding rose in existence. It originated in Orleans, France, from a cross of the Crimson Rambler and a Polyanthus variety, and it may be called a perpetual blooming dwarf Crimson Rambler. The bush is vigorous, absolutely hardy, about 12 inches in height, and on our place every plant was in bloom every day of the summer and fall. Sometimes as high as 120 flowers have been counted on a single panicle. Nice, well-grown plants each 15c; dozen \$1.50. Large two-year-old plants each 40c.

BABY TAUSENDSCHON.—Dwarf form of the "Thousand Beauties" rose. Like the climbing variety, it shows many shades of color, from carmine to shell pink, in the clusters at the same time. It produces blooms in wonderful profusion and a few plants will give the effect of many varieties in a single bed. Each 15c; large two-year-old plants each 40c.

WHITE BABY RAMBLER.—(Catherine Zeimet.)—The true Baby Rambler type, with pure white flowers. Deliciously fragrant and perfectly hardy. Each 15c; two-year-old plants each 40c.

PINK BABY RAMBLER.—(Phyllis.)—A counterpart of the Crimson Baby Rambler except that color is a bright, shining pink. Splendid in combination with the above. Each 15c; two-year-old plants each 40c.

FOUR BABY RAMBLERS 50c, OR IN TWO-YEAR-OLD PLANTS, \$1.40.

CRIMSON BABY RAMBLER

Fairy Roses

These small roses are marvels of grace and beauty; the blooms are borne in clusters.

YELLOW SOUPERT.—(Mosella.)—A choice novelty. The flowers are double; tinted white on a beautiful yellow ground. Each 15c; two-year-old plants each 25c.

LITTLE WHITE PET.—A pure white of perfect shape. Each 10c, two-year-old 25c.

CLOTHILDE SOUPERT.—One of the most popular and satisfactory roses grown. Wonderfully free bloomer. White, shaded pink. Each 10c; two-year-old plants each 25c.

CECIL BRUNNER.—Is similar to Clothilde Soupert, except it is salmon rose on yellow ground color. Like all others of this class it is extremely free flowering. Each 15c; two-year-old plants each 25c.

THE FOUR FAIRIES 35c.
2-YEAR-OLD PLANTS 80c.



LITTLE
WHITE



CAPTAIN CHRISTY



RUGOSA ROSES

Rugosa Roses

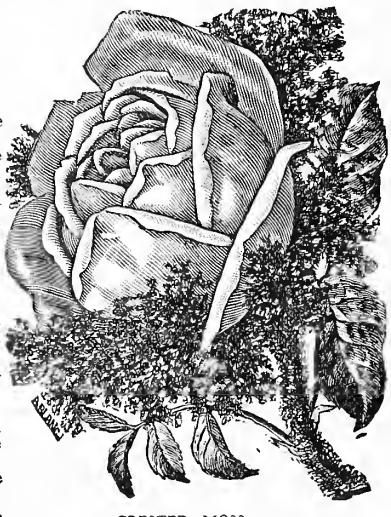
SIR THOMAS LIPTON.—A hardy hybrid rugosa rose. Grows 4 feet high, strong and vigorous. Flowers double, pure white. Fine for hedging, cemeteries or massing. Each 15c; two-year-old plants 35c.

CONRAD F. MEYER.—Elegantly formed buds and flowers $3\frac{1}{2}$ to 4 inches across and perfectly double. Color rich, peachy yellow, tinged silver rose; very fragrant, and entirely hardy. Each 15c; two-year-old 35c.

RED RUGOSA.—A single-flowered rose. Makes a handsome large bush; bright green leaves; clusters of deep rose colored flowers continuously, followed by large, apple-shaped, bright red fruits. Strong plants 30c.

WHITE RUGOSA.—Similar to the above; white flowers. Each 30c.

ONE EACH FOUR RUGOSA ROSES IN LARGE PLANTS, ONLY \$1.00.



CRESTED MOSS

Memorial Roses

These hardy little roses creep over the ground like ivy. The leaves are a glossy dark green color.

WHITE MEMORIAL.—(Wichuriana.)—Fine for cemetery planting. Flowers are single and pure white; hardy. Each 15c; two-year-old 30c.

MANDA'S TRIUMPH.—Is a rapid, sturdy grower; bears a profusion of double, pure white, imbricated flowers; elegant for cemetery planting. Each 10c; two-year-old 25c.

Moss Roses

Acknowledged queen of all roses; moss-covered stems and buds show off delicate loveliness of blossoms, hardy but needs protection.

CRESTED MOSS.—Deep pink buds surrounded by mossy fringe; very fine. Each 20c; dormant plants each 40c.

CRIMSON GLOBE.—Large flower; deep, rich crimson; very mossy; fragrant. One of the best. Each 15c; dormant 35c.

WHITE MOSS.—Everyone should have one of these lovely plants. Each 15c; dormant 35c. **One each of Moss Roses for 35c; dormant 85c.**

HARDY CLIMBING ROSES

For porches and trellises nothing surpasses the climbing roses, especially the ever-blooming varieties. We recommend the two-year-old plant for immediate effect. Following are recommended as permanent plants:

CLIMBING AMERICAN BEAUTY.—Real American Beauty in flower, foliage and fragrance, but grows as a climber, often making 15 feet in a single season. Flowers are very large from 3 to 4 in. in diameter, of fine form and are borne in great profusion. A continuous bloomer, and hardy. A new rose of exceptional merit. Each 15c; two-year-old plants each 40c.

THOUSAND BEAUTIES.—(Tau-sendschon.)—A hybrid from crossing Crimson Rambler with Tea and Polyantha varieties. Blooms profusely from the beginning of June until the last of July. Color a lovely shade of soft pink when first open, changing to carmine on reverse of petals. The blooms are produced in clusters and show different shades at the same time. The older blooms will be deep pink and grading to light shell pink of the newest buds. It is this feature that gave the rose its name of "Thousand Beauties." Not so thorny as most sorts and is a strong, vigorous grower. Each 20c; two-year 40c.

SEVEN SISTERS.—One of the old standard climbing roses. Crimson, changing all shades to white. Blooms in clusters. Each 15c; two-year-old 30c.

MARY WASHINGTON.—Hardy, perpetual blooming climber, producing double snow white blossoms from June until frost. In this lovely rose our first president took special delight and named it after his mother, Mary Washington. Ea. 15c; two-year-old 30c.

PRairie Queen.—An old standard always popular. Grows successfully everywhere and under any conditions. Bright pink, full and double; a large flower. Each 10c; two-year-old 30c.

BALTIMORE BELLE.—Double blush white; large clusters covering plant with bloom. An old time favorite still popular because of its hardiness and general excellence. Each 10c two-year-old 30c.

RAMBLER ROSES

BLUE RAMBLER.—(Veilchenblau.)—The wonderful new rose which resembles the well-known Crimson Rambler in its climbing habit and manner of growth, having glossy green foliage and bearing large clusters of medium-sized flowers. When first opened its color is an attractive shade of violet crimson, later changing to a more distinctive and the unique shade of violet-blue. Is markedly distinct in color from any other rose and is a novelty deserving attention. Strong plants each 15c; large two-year-old 35c.

EXCELSA RAMBLER.—A greatly improved Crimson Rambler. It begins blooming two weeks earlier and its color is brighter, more intense crimson; almost entirely free from mildew. Each 15c; two-year-old plants each 35c.

CRIMSON RAMBLER.—The most popular rose in existence, as it is always satisfactory. Many instances reported of 3,000 to as high as 19,721 flowers by actual count on one bush. Exceedingly hardy. Flowers are produced in large trusses of pyramidal form and of brightest crimson color. Blooms remain on the plant for a great length of time without losing their brightness. Each 10c strong two-year-old plants 25c.

YELLOW RAMBLER.—A grand new variety like above except that it is golden yellow. One of the most satisfactory varieties. Each 15c; dormant plants 35c.

DOROTHY PERKINS.—A grand new sort remarkably like Crimson Rambler, but flowers more double and beautiful shell pink color. Each 15c; dormant 30c.

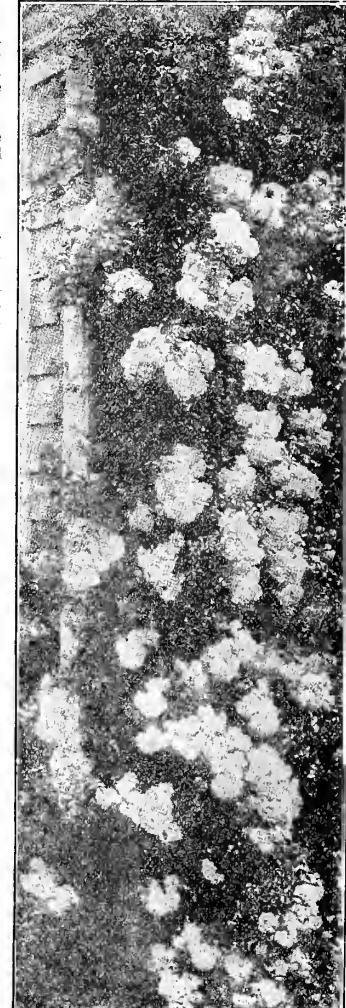
WHITE DOROTHY PERKINS.—Like the parent variety with pure white flowers. The Dorothy Perkins type is preferred by most rose growers to the ordinary Rambler sorts. Each 15c; two-year-old 30c.



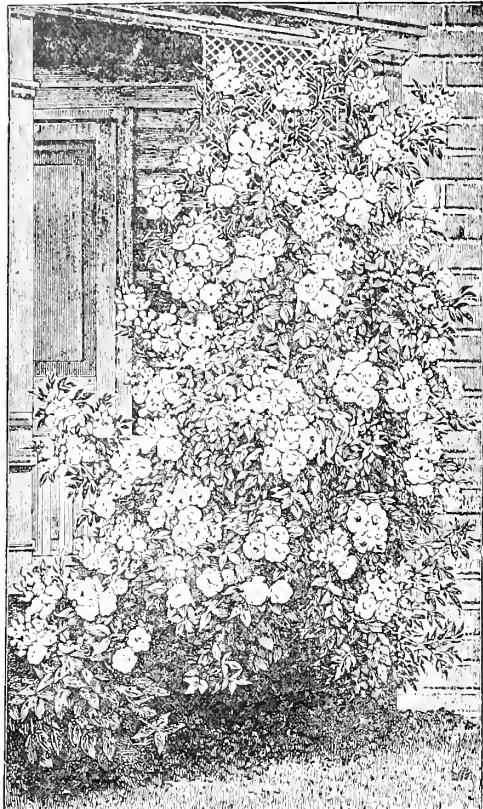
MARY WASHINGTON

CLIMBING ROSE COLLECTION

We make a special offer of one each Thousand Beauties, Mary Washington, Climbing American Beauty, Seven Sisters, Baltimore Bell and Prairie Queen for 75c, postpaid; large two-year \$1.25.



DOROTHY PERKINS



BALTIMORE BELLE

Rainbow Rambler Collection

5	1 BLUE RAMBLER	50
1 CRIMSON RAMBLER		
1 YELLOW RAMBLER		
1 DOROTHY PERKINS		
1 WHITE PERKINS		
TWO-YEAR-OLD PLANTS ONLY \$1.25		
Postpaid to your address.		



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CRIMSON RAMBLER

VINES AND BASKET PLANTS

(Listed separately for the convenience of our patrons who desire them for special uses.)

CLERODENDRON

BALFOURII.—Unique and beautiful. It presents a splendid combination of colors, having bright scarlet flowers with creamy white calyx; a profuse bloomer, young plants a foot high bearing several clusters. A strong and rapid grower. Each 15c.

CRIMSON CREEPER

HEERIA ROSEA.—A pot plant highly ornamental all the time. Long, slender and exceedingly graceful vines, red stemmed, with dark, rich green foliage; and are exceedingly pretty as they hang in wavy tresses over the side of a hanging pot or basket. It blossoms during the late winter, spring and early summer; flowers are large and of a peculiar shade of bright crimson, and borne in great profusion. Each 15c.

HOYA

CARNOSA.—(Wax Plant.)—A well known house climber, with thick, fleshy leaves and curious waxy flowers, bluish white in color. Quite scarce and not always obtainable, but we think we have enough to supply our friends this season. Each 25c.

IVIES

ENGLISH.—Old favorite, showy the year round. Hardy in South, but will not stand our Iowa winters. Each 15c. large plants 25c.

VARIEGATED ENGLISH.—Foliage is prettily marked pure white on dark green ground. A handsome pot plant or for trailing from sides of boxes or baskets. Each 15c.

KENILWORTH.—Old familiar trailing ivy. Perhaps the best for shaded places or rooms where light is not very strong. Each 10c. dozen \$1.00.

PARLOR.—Well known; popular as a plant for hanging baskets and vases. Grown with very little trouble. Each 10c. dozen 85c.

ONE PLANT EACH OF THE FOUR IVIES ABOVE NAMED FOR ONLY 40c.

PASSION FLOWER

MAMMOTH.—Flowers 2 to 4 inches in diameter, and the colors a remarkable combination of red, white and blue flowers. Each 15c.

CONSTANCE ELLIOTT.—A white-flowered mammoth variety. Each 15c.

VINCA MAJOR

ELEGANTISSIMA.—The handsomest vine to grow in window boxes, hanging baskets, trailing from pots, rockeries, etc. The long, trailing stems of glossy green leaves are broadly margined and variegated with white. Of easiest culture and does well either in sun or in shade. Blue flowers. Each 15c. dozen \$1.50. Large size plants each 25c.

HARRISONI.—Similar to above but with darker variegation. Very popular because of its strong growth. A well grown plant will completely fill a large hanging basket. Each 15c. dozen \$1.25. Large size plants each 25c.

WANDERING JEW (Tradescantia)

An old, well known trailing plant nice for growing in hanging baskets, vases, pots or window boxes. Two sorts with variegated foliage, and also the plain green leaf variety. Each 10c. 3 for 25c.

HANGING BASKET COLLECTION

This illustration of our popular collection but poorly depicts the beauty of a hanging basket filled with appropriate plants, well grown and healthy. We have in this collection chosen a half dozen plants which will give splendid results with little care and may be grown in any home window garden. Surely an opportunity at the price.

BOSTON FERN.—The most popular decorative plant in the entire list. Each 15c.

REX BEGONIA.—Most beautiful foliage plant; a source of much satisfaction. Ea. 25c.

WEEPING LANTANA.—Trailing variety of Flowering Lantana. Each 15c.

VARIEGATED VINCA.—The most popular vining basket plant on the list. A favorite with all. Each 10c.

TRAILING ABUTILON.—Adding much to the collection with its beautiful flowers and foliage. Each 15c.

WANDERING JEW.—The old-fashioned favorite basket plant. Each 10c.

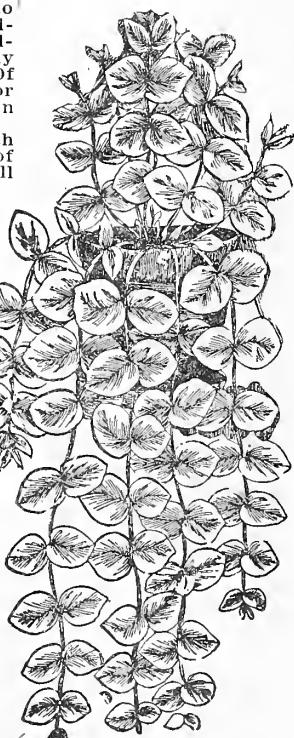
One each of the above by mail, postpaid, hanging basket and moss for lining, all postpaid, for \$1.00.

SAXAFRAGA

STRAWBERRY GERANIUM.—Well known, much used old plant for hanging baskets or vases. Long, strawberry-like runners. An old-fashioned plant but still popular and prized for its hardness and thrifty habit. Will grow vigorously and give satisfaction under hardest conditions. Each 15c;

SMILAX

A well known and handsome climber. Most popular of all vines with florists. Grows compact and upright, and from the manner of growth does not require any great amount of space. Can be trained on string. Ea. 10c.



VINCA ELEGANTISSIMA

MANETTA

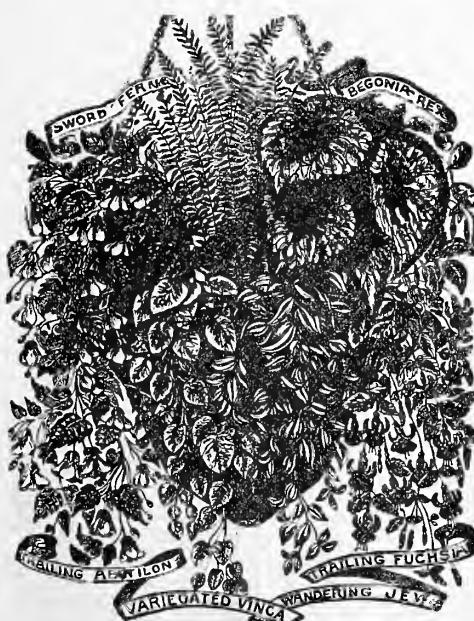
BICOLOR.—One of the handsomest little vines in existence. Easily and quickly grown; blooms continuously. Well adapted for hanging baskets, pot culture, vases or beds. Flower of size and shape shown in our cut, brilliant scarlet, tipped with clear golden yellow, making it most wonderfully attractive. Manetta Bicolor blooms constantly and profusely in winter when taken into the house. We heartily recommend this vine to all customers and feel assured of no complaint when tried. Each 15c.

MOONFLOWER

WHITE.—Very handsome climber, growing to a height of 25 to 40 feet, and covered nightly and on dull days with its white, moon-like flowers. Each 15c. dozen \$1.25.

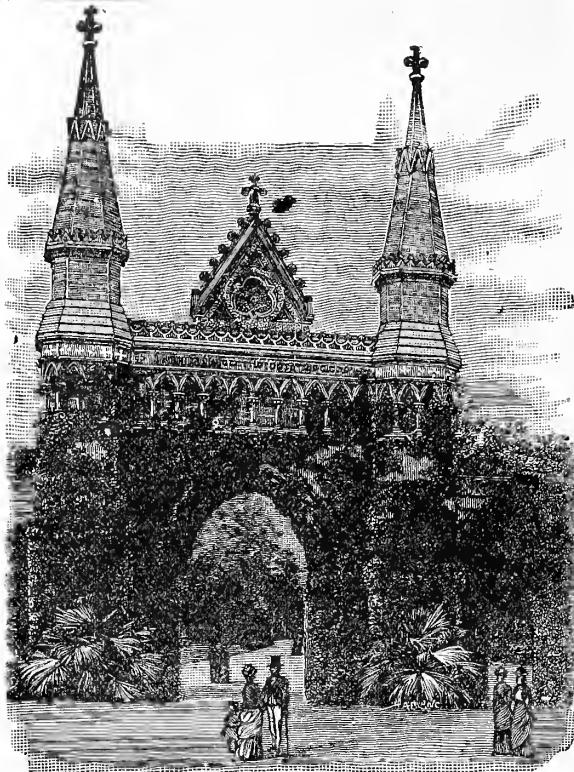
BLUE.—(Ipomea Leari.)—The flowers are a clear, satiny blue, with well defined crimson bars, very distinct. Each 15c. dozen \$1.25.

1 WHITE AND 1 BLUE MOONFLOWER 25c.



HANGING BASKET COLLECTION.

One each of the above by mail, postpaid, hanging basket and moss for lining, all postpaid, for \$1.00.



AMPELOPSIS VEITCHII OR BOSTON IVY

BIGNONIA

RADICANS.—(Trumpet Creeper.)—An old-fashioned hardy climber. Very desirable for covering unsightly places, stumps, old fences, and also fine for any spot where showy flowers are desired. It has clusters of large, trumpet-shaped crimson flowers with orange throat. Grows in almost any soil under trying conditions; hardy. It is one of the most popular of the hardy vines, and is useful and beautiful for any situation where a permanent vine is desired. Each 15c; large plants 30c.



BIGNONIA RADICANS

In the Camelia Vine (*Calystegia Pubescens*) we have a flower of true Camelia shape and size, perfectly double and of most beautiful rose color. Of easiest culture, growing well in any soil or location. Vine is of rapid growth, quickly covering trellis or porch and growing to a height of five to ten feet. For best results set 12 to 18 inches apart. Leaves are lance shape, dark green, and lap like shingles. Roots live in ground over winter. Blooms continuously from May to October and pleases everyone. Each 20c; dozen \$2.00.

HARDY VINES

In making a home, plan for future beauty, comfort and happiness by planting a variety of hardy clematis, ornamental vines, shrubs and roses which will constantly grow in beauty and size. Such permanent improvements add greatly to the value of any property, and the value grows from year to year, so that instead of an expense they should be considered a paying investment. We prepay postage or express charges at these prices.

AMPELOPSIS

VEITCHII.—(Boston Ivy).—Is a very beautiful hardy climbing plant. This is one of the finest climbers we have for covering walls, as it clings firmly to the smoothest surface, covering it smoothly with overlapping foliage, giving it the appearance of being shingled with green leaves. Should be slightly protected the first winter, but after that it will be found entirely hardy in the most exposed places, attaining a height of 20 to 30 feet in two or three years, clinging to stones, brick or woodwork with the greatest tenacity. It is a great protection to houses, as the leaves, lapping over each other like shingles on a roof, effectually prevent the rain from penetrating the walls. For covering dead trees, gate posts, boundary walls, etc., it has no equal. In the summer the foliage is a rich shade of green, but in the fall it assumes the most gorgeous tints of crimson, scarlet and orange, so dazzling as to be seen at a great distance. Each 20c; doz. \$2.00. Large plants 30c; doz. \$3.00.

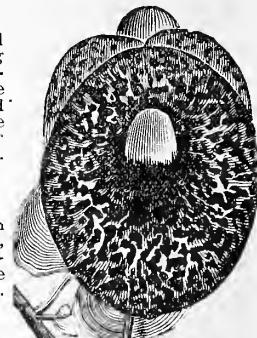
ENGELMANNI.—This is an improved Woodbine which bears very large, dense and abundant foliage. The leaves are glossy light green in summer, changing to brilliant crimson in autumn. Clings to rough stone or brick without support and has the upright manner of growth of the Veitchii and is preferred because of its much heavier growth of leaves. Each 20c; large 30c.

ARISTOLOCHIA

DUTCHMAN'S PIPE VINE.—The well known, vigorous and rapid growing climber used so extensively for archways or verandas. It takes its name from the singular brownish colored flowers, resembling in shape a pipe. The leaves are heart-shaped and retain their color from early spring to late fall. Each 25c; large 50c.

AKEBIA QUINATA

A perfectly hardy, fast-growing Japan vine, producing flowers in large clusters, of chocolate purple color, possessing a most delicious perfume; unsurpassed for covering trellises and verandas; the foliage is never attacked by insects. Each 15c; large 30c.



ARISTOLOCHIA

TUBEROSA.—Valuable, hardy, tuberous-rooted climber, resembling in miniature the Wistaria vine, and having clusters of deep purple flowers which have a strong violet fragrance. They grow to a great height, and bloom profusely. Plant several bulbs close together to produce a mass of vines and flowers. Each 5c; doz. 50c.

APIOS

A native climbing or twining plant; large leaves, yellow flowers, orange capsuled scarlet fruit. One of the most popular of native plants, as its beautiful seed pods are prized for winter decoration. Each 15c; large 25c.

BITTER SWEET**CHINESE KUDZU VINE**

JACK-AND-THE-BEANSTALK VINE.—The phenomenal growth of this new Chinese hardy vine can hardly be imagined—sometimes 12 inches a day. The large leaves of bright green afford a dense shade. Is valuable for rapidly covering arbors, fences, dead or old trees, rockeries, etc. Grows 50 to 75 feet when well established. Each 15c, dozen \$1.50; medium size 25c; large size 50c.

CINNAMON VINE

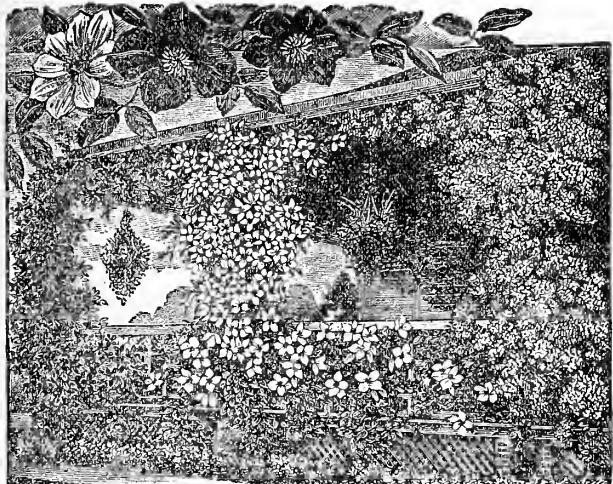
A tuberous-rooted, hardy vine which is also listed among the summer bulbs. With its beautiful heart-shaped leaves and clusters of delicate white flowers and cinnamon fragrance, it is a very desirable vine. Large tubers each 10c; 3 for 25c; doz. 75c. Bulblets from which the large tubers can be grown in one season, doz. 10c; 100 for 75c.

CHINESE MATRIMONY VINE

LYCIUM.—This vine is a very vigorous growing, shrubby climber which is perfectly hardy and desirable for training on trellis, wall or fence. Every new shoot becomes filled with small purple flowers, which are followed by brilliant scarlet berries which remain on the vine until late in the winter. Although the flowers are not showy, the long stems droop gracefully and make an admirable covering for the porch. Each 15c; large 30c.

CAMELIA VINE

CAMELIA VINE



CLEMATIS JACKMANII CLEMATIS HENRYII CLEMATIS PANICULATA

HARDY CLEMATIS

The most popular climbing plant of the day, and is constantly gaining in popularity—and why should it not?—as it is hardy, standing our most severe winters with but slight protection; grows rapidly and blooms freely during the entire season.

JACKMANII.—Most magnificent and showy vine in existence; of strong, healthy growth, perfectly hardy and sure to succeed anywhere. Flowers four to six inches in diameter, of a rich, deep velvety purple, distinctly veined. It is a prince among all hardy flowering vines. It is especially adapted to open lawns or house fronts in the city or country; blooms the entire season, from July to October, bearing beautiful and lasting flowers. Strong plants, each 50c.

HENRYII.—This may be briefly described as a white-flowered Jackmanii. It is the finest of all white so-called; the same size as Jackmanii. Each 50c.

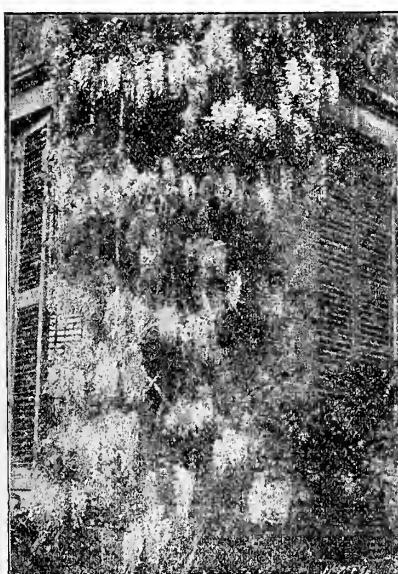
MAD. EDOUARD ANDRE.—An entirely distinct and beautiful new variety, being the nearest approach to a bright red ever sent out. Has the same vigorous growth, hardiness and freedom of bloom as the above, while the color is a pleasing carmine red. Each 50c.

PANICULATA.—This small-flowered variety of Clematis is one of our most beautiful, hardy, fall-blooming vines. The flowers, which are pure snow-white, are produced in immense clusters, fairly covering the plant with a mass of fleecy-white; deliciously fragrant. Of extremely rapidity of growth. Each 25c; large, extra strong plants 45c.

COCCINEA.—A charming variety of Clematis. Flowers are bell-shaped, and of brilliant coral red color. A rapid grower and free bloomer, flowering from June until frost. An herbaceous perennial, about 12 ft. high. Ea. 25c.

VIRGIN'S BOWER.—(Clematis Flammula.)—An old-fashioned popular climber, growing to a height of 20 feet, and covered with fragrant flowers. The vine is perfectly hardy, rapid growing, graceful, and will succeed anywhere. Each 15c; large 25c.

CLEMATIS COLLECTION.—A great bargain. A large plant of each of above kinds of Clematis for only \$2.00, postpaid.



WISTARIA

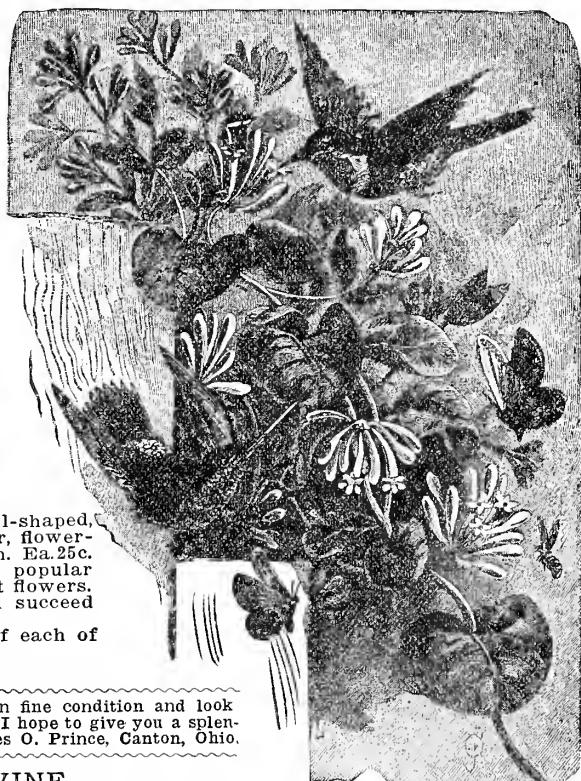
HONEYSUCKLE

RED CORAL.—A shrubby climber and one of the most satisfactory of all plants. Has been a favorite for many years. The odd-shaped foliage is showy and attractive and it produces its bright red, fragrant, trumpet-shaped flowers almost continuously. Nice for a hedge or for training over a residence. Each 15c; doz. \$1.50. Large plants 25c.

HALLIANA.—(Hall's Japan.)—For real home vines to climb over your windows and doorways there is nothing prettier than the Honeysuckles, and the Halliana is considered by many the sweetest and most beautiful of all. It is now planted in many places on terraces and allowed to run naturally, and it makes a lovely show treated in this way. It is a strong, rapid grower, perfectly hardy and almost an evergreen even in this severe climate. Blooms constantly and profusely from June to November. Flowers pure white changing to yellow, and of peculiarly delicious fragrance. Fine for trellises or pillars. Foliage bright, glossy green; makes dense shade. Each 15c, dozen \$1.50. Large two-year-old plants 25c; doz. \$2.50.

GOLDEN LEAVED.—Slender, moderate grower; leaves are beautifully veined and netted with bright yellow; flowers yellow and sweet-scented; fine for pillars and trellises. Each 15c; large 25c.

HONEYSUCKLE COLLECTION.—An offering of useful and ornamental vines at an attractive price. One each of the three varieties named above, offering distinct types, for only 40c. postpaid.



Plants were received here in fine condition and look well. With care and good soil I hope to give you a splendid report in the fall.—Charles O. Prince, Canton, Ohio.

HOP VINE

A vigorous, hardy, ornamental vine, for covering old trees, outbuildings, fences, etc. Produces the hops of commerce. Grows 50 feet high in a single season. Is both ornamental and useful. Each 15c; dozen \$1.50.

RED CORAL HONEYSUCKLE

PERIPLOCA GRECA.—Beautiful rapid-growing climber, 30 to 40 feet high; hardy. Leaves glitter like silk, hence name. Flowers purplish brown and borne in clusters. Each 15c; large 40c.

SILK VINE

VIRGINIA CREEPER.—A strong, rapid grower; foliage large, dark green; in autumn bronze and crimson. This is an old favorite and quite common in most localities. Valuable for covering back porches, out-buildings, arbors, etc. Each 10c; doz. \$1.00. Large size 20c; doz. \$2.00.

WOODBINE

BLUE CHINESE.—A very rapid grower, and one of the most beautiful of all climbers. It is perfectly hardy, climbing to a height of fifty feet; when covered with bloom it is magnificent. Each 20c; large 35c.

WHITE.—Similar to above; flowers white. Each 25c; large 50c.

HARDY VINE COLLECTION

One *Ampelopsis*, for the buildings; one *Clematis Paniculata*, for the front porch; one *Honeysuckle*, for the trellis in the front yard or on the lawn; one *Bignonia* (Trumpet Creeper), for the fence or screen. These are specially selected for the purposes mentioned but can be used to advantage in many different ways. We send one each of the beautiful vines postpaid for 50c, or will send extra large, strong plants suitable for immediate effects, by express, not prepaid, for 75c.

HARDY SHRUBS

Shrubs are permanent improvements which increase in size, value and beauty year after year. Our price is for strong, healthy plants sent by mail, postpaid, except if they are quoted "by express" it means that customers are to pay cost of transportation. Those marked large or dormant are strong two-year-old plants.

ALTHEA (Rose of Sharon)

DOUBLE WHITE.—You will find this one of the most beautiful shrubs. Bushes of neat shape, have nice foliage and would be valuable as ornamental hedge plants even if they produced no flowers. The plants, however, are loaded with large, double, white flowers during August, September and October. Each 15c; large size 25c.

DOUBLE RED.—Similar to above but flowers are bright red color. Each 15c; large plants 25c.

DOUBLE PURPLE.—Like above, except flowers are beautiful purple. Each 15c; large size 25c.

DOUBLE BICOLOR.—White, blottedch pink. Very beautiful. Each 15c; large size 25c.

VARIEGATED LEAVED.—The beautiful foliage of this variety attracts attention everywhere. Deep green, bordered with a band of creamy white. Flowers red. Each 20c, large 35c.

CORCORUS

JAPONICA.—(Kerria.) A beautiful and graceful shrub from 2 to 3 ft. high; in bloom from June to October. Produces hundreds of large, double, yellow flowers. Each 15c, large 35c.

VARIEGATA.—Nicely variegated foliage adds greatly to its beauty. Each 15c, large plants 35c.

EXOCHORDIA

GRANDIFLORA.—(Pearl Bush.)—Neat, compact bush; 10 to 12 feet; can be trimmed any desired shape; pure white flowers borne in slender racemes of 8 to 12 florets each. Each 15c; large size plants each 30c.

DWARF HONEYSUCKLE

RED TARTARIAN.—Bloom in June with beautiful pink and white flowers, followed by red berries. Each 15c, large 30c.

FLOWERING ALMOND

DOUBLE PINK.—One of the earliest and finest of shrubs. Loaded with double, pink flowers. Mail size 40c.

DOUBLE WHITE.—Like above, with snowy white flowers. Mail size 40c.

SNOWBALL

COMMON.—A well known and popular shrub covered with dense white flowers, which gives it its name. Each 15c; large plants each 35c.

JAPAN.—A valuable improvement on the common Snowball; flowers are smaller and more numerous; often as many as twenty on a stem 18 inches high. Each 15c; large plants each 35c.

SYRINGA

GRANDIFLORA.—One of the strongest growing varieties, with lovely, large, very fragrant flowers. Each 15c; large plants 30c.

LE MOINEI.—A charmingly fragrant variety. Flowers are yellowish white. Each 15c; large plants each 30c.

TAMARIX

Foliage light, feathery and graceful; sage blue in color and very striking. It blooms through summer and autumn; the flower is pink. Each 10c; extra large 35c.

VIBURNUM

OPULUS.—(High Bush Cranberry) —Has handsome and dense foliage. The flowers are white in drooping flat cymes and are followed by brilliant scarlet fruit in showy bunches remaining on the plant all winter. Each 15c; large plants each 30c.

WEIGELIA

ROSEA.—Of robust but graceful growth, 5 to 6 ft. high; it produces immense numbers of superb large trumpet-shaped flowers in June and July, also some in the fall. The plants frequently have more flowers than leaves. Each 15c, dozen, \$1.50. Large plants 35c; per dozen \$3.50.

EVA RATHKA.—A splendid new variety. Has large purplish red flowers with rich, creamy white markings. Ea. 20c, large plants 40c.

VARIEGATED.—A neat, dwarf shrub; variegation of green, yellow and pink in its leaves; flowers delicate pink. Each 15c, large plants 35c.

GRANDIFLORA WHITE.—Flowers are pure white, without shade or markings. Each 15c, large plants 35c.



ALTHEA
BICOLOR

CORNUS

FLORIDA.—(White Flowering Dogwood.)—An ornamental and spreading, irregular-shaped tree producing large white flowers in the spring and rich crimson foliage in autumn. Each 15c; large 25c.

STOLONIFERA.—(Red Twisted Dogwood.)—A strong growing shrub, with clusters of fine white flowers, stem and branches turning blood-red in winter. Each 15c; large 25c.

FORSYTHIA

SUSPensa.—(Golden Bell.)—Weeping or pendulous habit; has deep green leaves and bright yellow flowers. It blooms early. Each 15c, large 25c.

FORTUNIS.—A more upright growing variety; yellow. Ea. 15c, large 25c.

VIRDISSIMA.—Blooms among the first shrubs. Flowers yellow, drooping and borne in great numbers. Variety originally from China. Each 15c, large 25c.

PURPLE FRINGE

Commonly called Smoke Tree. Large shrub with long, feathery flower stalks, giving it the appearance of being covered with a cloud of smoke. Each 15c; large 40c.

SAMBUCUS

GOLDEN LEAF ELDER.—The most showy of all shrubs for the lawn. It grows about 6 feet high and has wide spreading branches. Its leaves are of dark, dazzling yellow color. Each 15c, dozen \$1.50. Large plants 30c.

VARIEGATED.—A variegated green and white sort. Each 15c, large 35c.

PRIDE OF ROCHESTER DEUTZIA

DEUTZIA

PRIDE OF ROCHESTER.—Very desirable shrub of strong, hardy growth, with nice, luxuriant foliage and bearing an abundance of beautiful racemes of double, pure white flowers. Each 10c; large 25c.

GRACILIS.—Pretty, round, bush-shaped Deutzia, bearing pure white flowers in great numbers during May. Each 10c; large size 25c.

CRENATA.—Flowers are double white, and tinged with pink. Small 10c; large 25c.

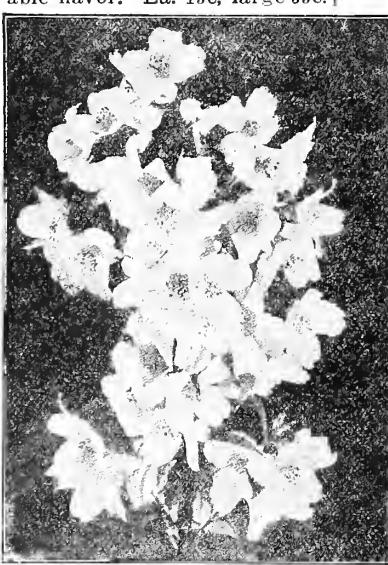
CANDIDISSIMA.—Grows about 3 feet high; bears pure white flowers. Ea. 10c, large 25c.

CALYCANTHUS

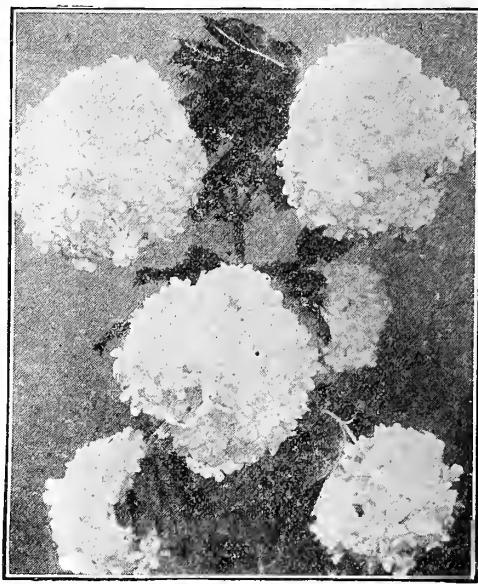
Generally known as "Sweet Shrub." Flowers are purplish brown, quite double, exquisitely fragrant. Each 15c, large size 25c.

ELEAGNUS

LONGIPES.—(Japan Oleaster.)—Very desirable silvery foliage and bright orange berries of large size and agreeable flavor. Ea. 15c, large 35c.



SYRINGA



SNOWBALL

HYDRANGEA

NEW SNOWBALL.—(Arborescens Grandiflora Alba.) A magnificent new variety of the hardy hydrangea. Flowers are borne much more profusely than on the Paniculata and though the blooms are not so large they are pure white and more like the Snowball. Blooms in July and August when flowers of this type are scarce and is especially valued for this reason. Each 15c, large 30c. Two-year-old plants, by express, per dozen \$2.50, per 100 \$18.00.

PANICULATA GRANDIFLORA HYDRANGEA.—The grandest and most popular of all shrubs, and hundreds of thousands are sold every year. Is unsurpassed for the lawn, a hedge, or cemetery planting. It readily attains a height of 5 to 7 feet; is hardy in all localities and in July and for two or three months the flowers are massive, cone shaped, sometimes 10 inches in length, changing from the original pure white to pink, and finally to a beautiful, rich, coppery red. Each 15c, doz. \$1.50. Per 100, by express, \$10.00. Large dormant plants each 30c, doz. \$3.00. **SPECIAL.**—Two-year-old plants grown specially for hedges, by express, per 100 \$15.00, 25 for \$4.00.

TREE HYDRANGEA.—Large, specially grown plants of Paniculata Grandiflora in symmetrical tree form. Each, by express, 75c.

LILAC

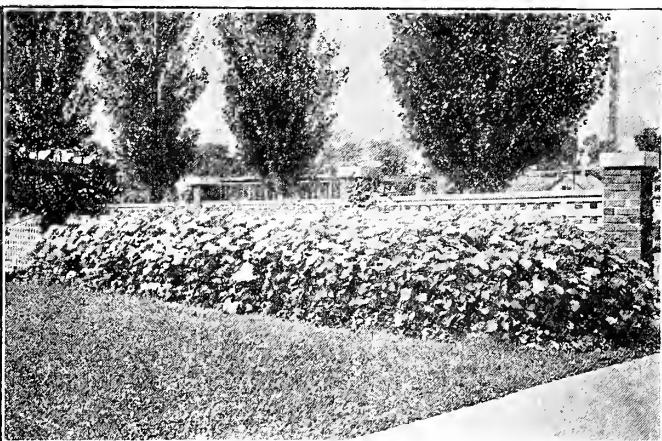
PERSIAN.—A well known and strong growing shrub, bearing large, fragrant clusters of purple flowers very early in the spring. Each 20c, large plants 35c.

FIERY PLUME.—A novelty in lilacs. The brightest and neatest red flower of all the lilacs. Very showy and desirable. Ea. 20c, large 40c.

NEW DOUBLE WHITE.—This is a recent novelty of great merit and the finest flowering shrub introduced for many years. The truss is of large size, and produced in profusion. The individual flowers resemble miniature tuberoses. Each 20c, large plants 40c.

COMMON.—The old standard variety with bluish purple flowers. Each 15c, large plants 25c.

SINGLE WHITE.—Like above, but has white flowers, making it more desired by some. Each 15c, large plants 35c.



NEW SNOWBALL HYDRANGEA

SPIREA

BILLARDI.—A strong growing variety; pink flowers. Each 15c, large plants 25c.

PRUNIFOLIA.—Plant of symmetrical growth bears long, graceful sprays of pure white flowers in great profusion. Blooms in May. Perfectly hardy; Always satisfactory. Ea. 10c, large 25c.

DOUGLASII.—Somewhat larger flowered than Billardii. Spikes of deep rose-colored flowers. Each 15c, large plants 25c.

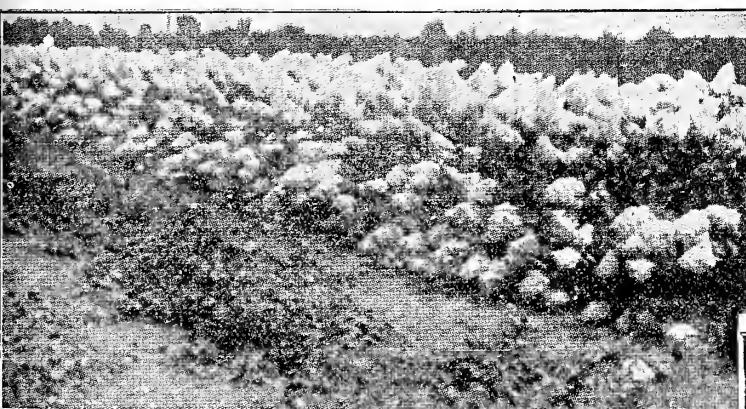
ANTHONY WATERER.—Grows 18 to 36 in. high, and is covered from spring until fall with large heads of crimson flowers. Fine for borders. Each 10c, doz. \$1.00; large 35c, doz. \$3.50.

VAN HOUTTEI.—(Bridal Wreath.)—Fine, compact clumps with pure white flowers borne in such masses that they form great plumes, drooping gracefully. Each 15c, doz. \$1.25, 100 for \$8.50. Large, each 25c, doz. \$2.00, 100 by express, not prepaid, \$14.00.

THUNBERGIA.—Slender, gracefully drooping branches. Has single white flower. Blooms early. Each 15c, large plants each 30c.

CYDONIA JAPONICA

JAPAN QUINCE.—A thorny shrub used for fences or division hedges where protection is desired. Larger than Barberry. Bear training to form without damage. In the spring it is completely covered with dazzling scarlet flowers. Ordinary size, by exp. per doz. \$1.25, 100 for \$8.00. Large, ea. 35c, doz. \$3.00, 100 for \$18.



HEDGE OF HYDRANGEA PANICULATA GRANDIFLORA

HEDGE PLANTS**PRIVET**

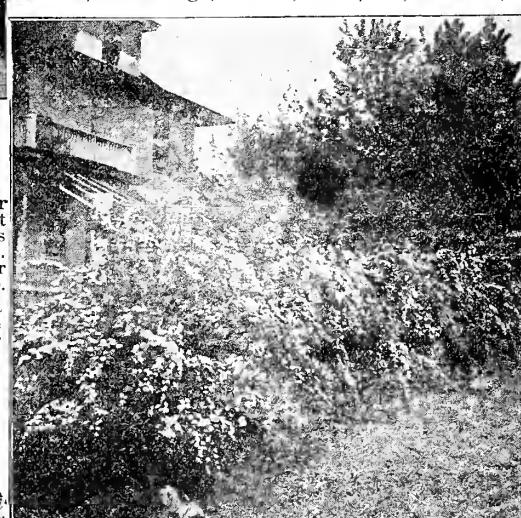
CALIFORNIA.—A most vigorous grower of compact and regular form; foliage is a beautiful shade of glossy, wax-like green which it retains well into the winter, being almost an evergreen. Sometimes winter kill in this latitude but is hardy throughout the east and south. For hedges plant 8 to 10 inches apart. Strong one-year-old plants per doz. 75c; per 100 \$6.00, prepaid. By express, per 100 \$5.00; 500 for \$17.50.

ARMURENSE.—Makes a splendid formal hedge about a home in city or suburbs. Is a very handsome plant with glossy leaves and almost an evergreen. Stands the severest winters. Hardest of all privets and the most popular among northern planters. South of Iowa line the California variety is generally more popular. Ea. 15c, doz. \$1.50, 100 \$11.50, prepaid. By exp., 100 \$9.00.

BARBERRY

THUNBERGII.—A very pretty variety from Japan; dwarf, graceful habit; foliage is small, changing to beautiful bright red early in fall; showy. One of the prettiest hedge plants ever grown. Ea. 15c, doz. \$1.50. Large plants 25c; doz. \$2.50. By express, per 100, \$15.00.

HEDGE OF AMURENSE PRIVET



SPIREA VAN HOUTTEI (Bridal Wreath)

SYMPHORICARPUS

RACEMOSUS.—(Snowberry.)—Bear small pink flowers, followed by large white berries, which hang on most of the winter. Very showy and desirable. Small plants 10c, large 25c.

VULGARIS.—(Coral Berry.)—This is a nice hedge plant, growing naturally graceful, 2 to 3 feet high, and thrives throughout the country. It is frequently seen growing wild in meadows and in woodlands. Large plants, by express, per dozen \$2.00, 100 for \$12.00.

HARDY PERENNIAL PLANTS

It is really wonderful the immense demand which there has been for these hardy plants during the past few years, our trade in this line multiplying fourfold every year. Our customers are learning that they require less care and are more satisfactory with ordinary culture than most other classes of plants. When once set out they bloom year after year, the flowers really becoming better as the plants grow older. These varieties are all hardy, the tops dying down every winter, but coming up again in the spring. We prepay the postage on all of these.

ANEMONE

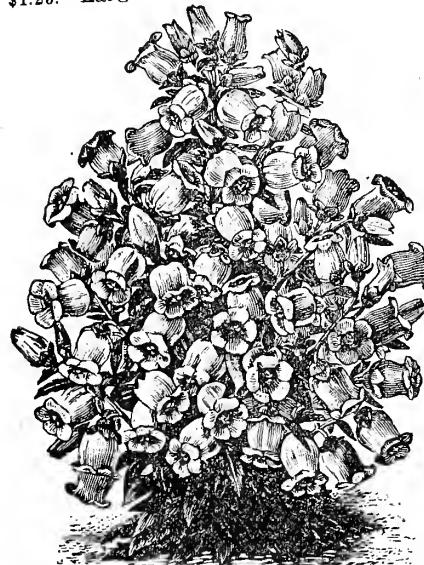


ANEMONE

MILLIFOLIUM ROSEUM.—Finely cut, deep green foliage. Bears a mass of handsome, bright pink flowers in heads or umbels. Well worth growing, both as a border plant and for cutting. Each 10c, dozen \$1.00.

AQUILEGIA

These beautiful flowers, often called Columbines, are always beautiful and attractive, reminding one of the woods. Many handsome colors. Each 15c, dozen \$1.25. Large clumps 25c.



CANTERBURY BELLS

We can furnish assorted colors. These are wonderfully fine perennials which if well grown will often reach 3 feet in height. Color of flowers blue rose or white. Each 15c, dozen \$1.50. Large clumps, each 25c.

CANTERBURY BELLS

This is a dainty little novelty. The flower is from one-half to three-fourths inch in diameter, perfectly double and of a peculiarly shining bright yellow color, as if varnished; blossoms produced in greatest profusion. Ladies and children go into ecstasies over them. Each 15c, dozen \$1.50.

DICENTRA (Bleeding Heart)

SPECTABILIS.—The old Bleeding Heart, as lovely as ever. In early spring it bears its long chain of pendulous bloom of exquisite beauty. One of the most satisfactory of permanent plants, and a general favorite. To secure satisfactory results, keep soil loose and rich. Each 20c, dozen \$2.00.

DAY LILY

WHITE.—(Funkia).—Very beautiful plant for partly shady places. Large round, heart-shaped leaves, clusters of fragrant, lily-shaped white flowers. Each 15c, dozen \$1.50.

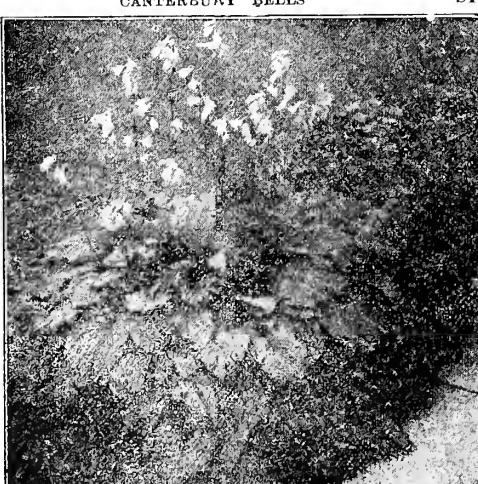
BLUE.—Like above, lovely blue, borne on tall spikes. Ea. 15c, dozen \$1.50.

VARIEGATED.—Beautifully mottled dark green and pure white leaves, lilac flowers. Each 15c, dozen \$1.50.

ONE EACH OF THE 3 VARIETIES OF DAY LILY POSTPAID FOR 40c.

DELPHINUM

FORMOSUM.—(Hardy Larkspur).—Its long spikes of bright blue flowers are produced continually from June till frost. Handsome in clumps. Ea. 15c, dozen \$1.50.



WHITE DAY LILY

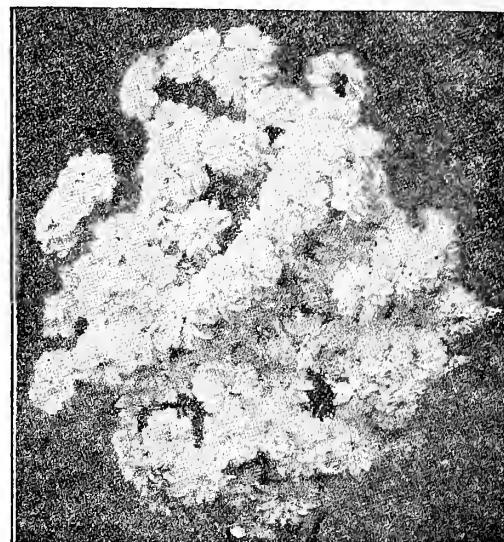


BLEEDING HEART

ACHILLEA

THE PEARL.—Beyond question the finest of all plants for cemetery planting. The flowers are good sized, forming a beautiful plant 18 inches high, completely covered with pure white flowers from July until frost. We cannot too highly recommend this for general planting. Cut shows the heads of bloom which cover the plant. Each 10c, dozen \$1.00.

QUEEN CHARLOTTE.—Similar to above but earlier and of beautiful shell pink color. An early flowering pink Anemone. Each 15c, dozen \$1.50.



PEARL ACHILLEA

BABY'S BREATH

(Gypsophila Paniculata).—This possesses a grace not found in any other perennial, and when in bloom it forms a symmetrical mass 2 to 3 feet high, of minute white flowers, giving it a beautiful mist-like appearance. For cutting purposes it is exquisite, especially in combination with high-colored flowers. Each 10c, dozen \$1.00.



AQUILEGIA

DOUBLE BUTTERCUP

This is a dainty little novelty. The flower is from one-half to three-fourths inch in diameter, perfectly double and of a peculiarly shining bright yellow color, as if varnished; blossoms produced in greatest profusion. Ladies and children go into ecstasies over them. Each 15c, dozen \$1.50.

DICENTRA (Bleeding Heart)

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DAY LILY

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BLUE.—Like above, lovely blue, borne on tall spikes. Ea. 15c, dozen \$1.50.

VARIEGATED.—Beautifully mottled dark green and pure white leaves, lilac flowers. Each 15c, dozen \$1.50.

ONE EACH OF THE 3 VARIETIES OF DAY LILY POSTPAID FOR 40c.

DELPHINUM

FORMOSUM.—(Hardy Larkspur).—Its long spikes of bright blue flowers are produced continually from June till frost. Handsome in clumps. Ea. 15c, dozen \$1.50.



GAILARDIA GRANDIFLORA

MEHAN'S MARVEL MALLOW

Magnificent hardy Mallow; in size, profusion of bloom, and rich coloring among the most beautiful and striking perennials. Blossoms 8 to 10 inches across. Colors from fiery crimson to pure white. All shades of pinks and reds, rich in coloring. Each 25c, dozen \$2.50.

FOXGLOVE
(*Digitalis*).—Illustrated on page 67. These are most satisfactory summer flowering hardy perennials, succeeding under almost all conditions, and with but trifling attention will give wealth of flowers during June and July. They are used extensively with good effect in shrubberies and in other shady situations. Each 10c, dozen \$1.00.

GAILARDIA

GRANDIFLORA.—Begin to flower in June and continue one mass of bloom the entire season. Will thrive in almost any position or in any soil, but respond freely to liberal feeding. Being perfectly hardy they require absolutely no protection. The flowers are large, from $2\frac{1}{2}$ to $3\frac{1}{2}$ inches in diameter. They are produced on long stems. Center is dark reddish brown. Petals brilliant scarlet, crimson, orange and vermillion. Each 15c, dozen \$1.50. Large clumps 25c.

HIBISCUS

CRIMSON EYE.—Robust grower, with red stems and green foliage. Flowers are immense, often measuring 20 inches in circumference. Color is white with large spot of deep velvety crimson in the center of each flower. Is perfectly hardy. Each 15c, dozen \$1.25. Extra large 20c.

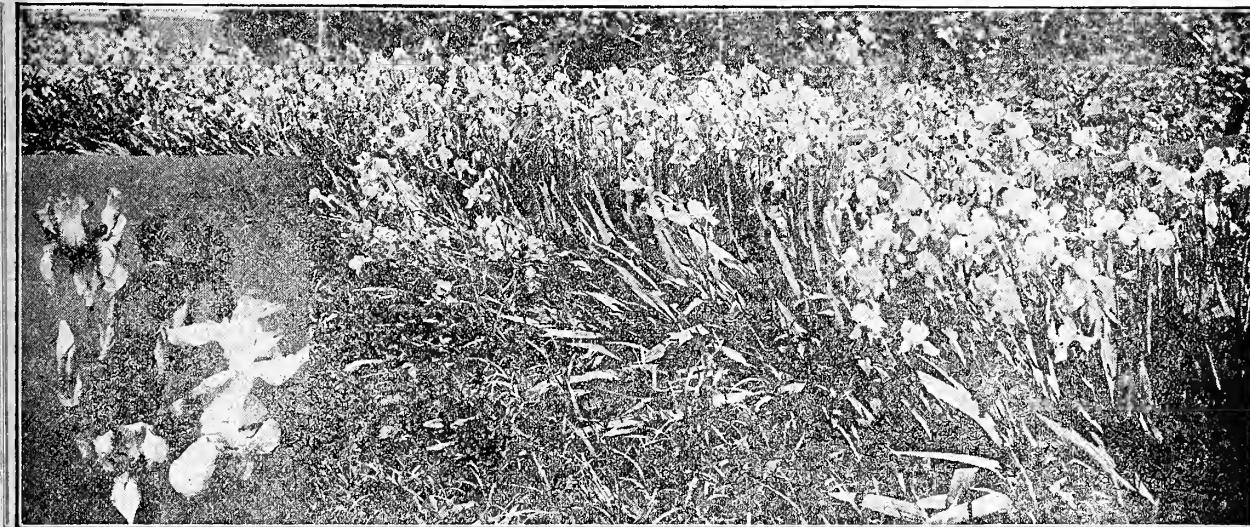
MOSCHETUS.—Also called Swamp Rose Mallow. A splendid Hibiscus with eye of darker shade, free flowering and beautiful. Ea. 15c, dozen \$1.50.

HOLLYHOCK

These old favorites are again becoming popular. Both showy and desirable for massing and backgrounds. Mixed colors, including black white, pink, yellow and red. Each 15c, dozen \$1.50.

HELIANTHUS

MULTIFLORUS PLENUIS.—Has flowers from 2 to 4 inches across, double as any double dahlia, and cover the plant. Color is a bright golden yellow. Give it a sunny position and rich soil. Each 15c, dozen \$1.75.



IRIS

FRENCH IRIS

The true "Fleur-de-Lis," the national flower of France. Perfectly hardy, thrive anywhere, grow and bloom luxuriantly. Unless otherwise noted, price of any variety is 15c each, dozen \$1.50. Large clumps each 30c, dozen \$3.00.

ALEXANDER HUMBOLDT.—Has standards of violet, all purple, veined white. Bears large, bold flowers in clusters of five on strong stems.

CELESTE.—Large, open flower of pure celestial blue, hanging to porcelain blue as it ages.

FLAVESCENS.—Standards cream white, falls primrose eined bronze. Tall growing and late blooming.

FLORENTINA.—Rich indigo blue throughout. Flowers large, first in bloom and quite lasting.

FLORENTINA ALBA.—The best white iris. A lovely shade of color, very early and fine. Plant it for contrast.

HONORABLE.—Standards bright yellow, falls chestnut brown veined white. Free bloomer.

LA TENDRE.—Standards lavender, falls light blue. thickly veined violet. Very pleasing, clean, bright color.

MADAME CHEREAU.—Pearly white, edged with a broad margin of violet. Flowers are crumpled. A late sort.

GYPSY QUEEN.—Standards a rich cream yellow. Falls deep purple, shaded bronze. Medium height. Free bloomer.

PLUMERI.—Clear wine red throughout. A distinct color Iris. Plant throws tall stalk and is free bloomer.

SAN SOUCI.—Unique color combination, violet and yellow, flushed apricot. Blooms freely.

SHAKESPEARE.—Standards of light yellow, veined seal brown, falls deep, carmine violet. Striking in beauty.

SUCCESSION IRIS BED

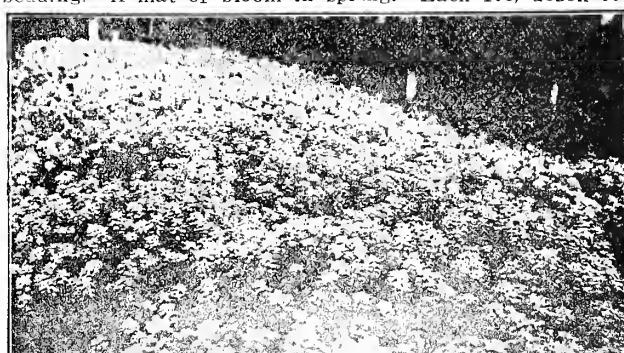
One plant each of the twelve named sorts of French Iris, giving a contrast of color from first early spring to the middle of June, postpaid, for only \$1.25. This collection in field-grown clumps for immediate effect at \$3.00.

JAPANESE IRIS

Among the most beautiful summer flowering plants. They send up to a height of 3 feet a dozen flowering spikes, each bearing two to four blossoms 8 or 10 in. across, and of most beautiful markings and color combinations—white, indigo, purple, blush, yellow, etc. Except the orchid no other can compare with it; easily grown as a potato, in any good soil. Give full exposure to sun. A joy for a lifetime, blooming freely in June and July. Mixed colors, each 15c, dozen \$1.50.

IBERIS

SEMPERVIRENS.—(Perennial Candytuft.)—A dwarf plant producing clusters of flowers. A fine perennial for mass bedding. A mat of bloom in spring. Each 10c, dozen 90c.



IBERIS [PERENNIAL CANDYTUFT]

SUPERB PÆONIES

The Paeony is truly a most noble flower and rivals the rose in brilliancy of color and perfection of bloom, while greatly surpassing it in size and stately grandeur. One writer has well said that the "Paeony fully equals the rose except in poetry, perfume, thorns, bugs and disease." They are of the easiest culture, most

vigorous habit, and free from disease and insects. The foliage is rich, glossy and ornamental, even when plants are not in bloom. Many of the newer varieties are quite fragrant and no other flower is so well adapted for large and show bouquets. Plant the paeonies this year, plant lots of them in rows, beds or as specimen plants on the lawn. They make a grand show. May be transplanted either in spring or fall. Set out early in spring as possible. Fall planting should be done in September or October, and they should be protected the first winter slightly. They may be left undisturbed for twenty years or more. In planting set the crowns two inches below surface. We pay postage



FIVE FAVORITES PÆONY COLLECTION

REMARKABLY FINE FOR A PERMANENT BED

One strong root of each of five choice varieties, five beautiful colors, postpaid, for only \$1.50.

All are free bloomers, with flowers of largest size, and the contrast in colors will afford the grower the greatest opportunity for mixed bouquets of these wondrous blossoms. In our opinion, these are the most gorgeous flowers, and this the greatest opportunity in all our hardy plant department.

Festivs Maxima.—White, blotch of red in center.

Queen Victoria.—Like above, somewhat smaller.

Floral Treasure.—Light rose pink; very fine.

Humeii.—Bright pink, brighter than above.

Grandiflora Rubra.—Deep blood red.

Five Favorite Pæonies, \$1.50, Postpaid

THE FIVE FAVORITE PÆONY OFFER IS ONE OF THE BEST BARGAINS IN ENTIRE CATALOGUE FOR PERMANENT PLANTING.

WHITE PÆONIES

FESTIVA MAXIMA.—(See Cut No. 1.) By far the finest double white pæony grown. The flower is of immense size, perfectly globular, the guard petals being large, while the inner petals are crimped, thus making it appear extremely double. The color is of the purest snow white with sometime slight carmine marks in the center. Our price only 50c, doz. \$5.00.

COURONNE D'OR.—This is a peculiar variety in form, as the blooms are rather flat, but in the center is a tuft of white, with a few crimson splashes like Festiva Maxima. It grows medium height and blooms rather later than other white sorts. Strong and vigorous. Each 50c.

QUEEN VICTORIA.—(See Cut No. 2.) Very double and compact; color flesh white, white center, petals lightly spotted with red. A half dozen of these make a magnificent bed. Each 30c, doz. \$3.00.

GOLDEN HARVEST.—This is probably the nearest approach to a yellow pæony. Outer petals light blush, light yellow center. Very prolific, bearing flowers in clusters of three. Each 50c, dozen \$5.00.

MARIE LEMOINE.—A rare and magnificent variety; flowers are enormous opening a light blush pink, changing to white when flower is mature. Very robust bloomer. Scarce. Ea. 50c, doz. \$5.00.

PINK AND ROSE PÆONIES

EDULIS SUPERBA.—This is a very large, full flower of light pink. It is an old variety but is still popular because of its strong growth and immense clumps. Each 25c, dozen \$2.50.

FRAGRANS.—A very double flower of deep, bright rose. Blooms late in the season. Strong, robust grower. Each 25c, dozen \$2.50.

HUMEII.—(See Cut No. 3.)—Very large and full and one of the finest pæonies; color is bright pink and it is delightfully fragrant. Elegant foliage. A fine specimen for lawns. Blooms late. Each 25c, dozen \$2.50.

FLORAL TREASURE.—(See Cut No. 4.)—One of the finest in the entire list. The flowers are extra large and very double; exceedingly prolific; color soft, delicate blush pink. Each 40c, dozen \$4.00.

LA ESPERANCE.—Is an exceedingly fine, vivid rose-colored flower, growing compact and highly perfumed. Early and free flowering. Each 30c, dozen \$3.00.

DUKE OF CLARENCE.—The most prolific bloomer in the list. Wonderful large blooms somewhat coneshaped. Color is deep pink, overlaid white, showing a composite appearance. Each 35c, dozen \$3.50.

BRIGHT AND DARK RED PÆONIES

FELIX CROUSSE.—This is a most beautiful solid flower of bright red color, differing from most sorts in the solid flower having practically no division of outer petals and center. Very double; late flowering. Each 50c, dozen \$5.00.

GRANDIFLORA RUBRA.—(See Cut No. 5.)—Has extra large balls of blood red, magnificent flowers. Probably the largest red variety in existence, often 8 or 9 inches across. Give it rich soil and you will be surprised. Each 50c, dozen \$4.75.

RUBRA TRIUMPHANS.—An early blooming and very sweet-scented flower of rich, brilliant, glowing, satiny crimson color. Each 35c, dozen \$3.00.

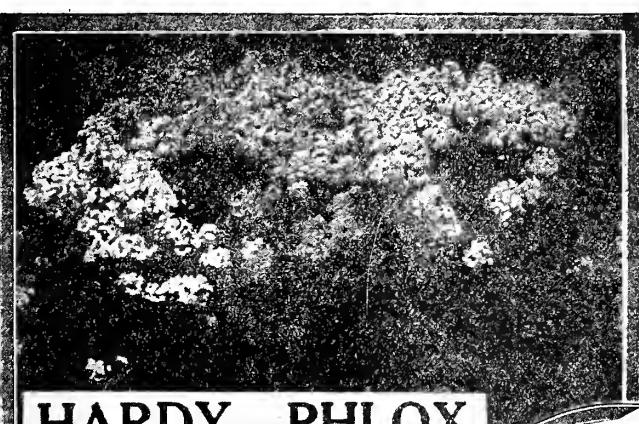
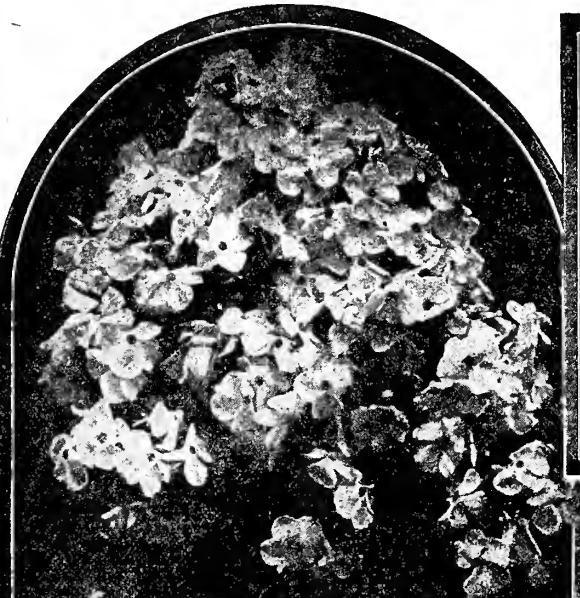
FULGIDA.—The color is a deep, dense, bright crimson and it is an early and free bloomer. A beautiful and very desirable variety. Each 30c, per dozen \$3.00.

PRINCE IMPERIAL.—Deep, purplish crimson, shining and satiny. The flower is very double, rich and striking and blooms early. A splendid sort for contrast with the lighter shades. Each 50c, dozen \$4.50.

OUR PÆONY BARGAIN

One white, one pink, and one red, our choice of varieties, but good plants and will produce good flowers. A real bargain this season.

THREE DIFFERENT COLORS, POSTPAID, FOR 75 CENTS.



HARDY PHLOX

No hardy perennials are more showy or effective than a fine collection of hardy phloxes, and the new and improved varieties will add much to their popularity. Flowers are very large and have exceedingly brilliant shades of color. They bloom from spring until very late fall. If massed in good soil, kept loose, the result will be a splendid show of immense flowers.

CHAMPS ELYSEE.—A light purple or magenta blossom which is quite attractive. It is rather a dwarf sort, but a good grower and produces large blooms. Each 15c.

COLIBRI.—A very late bloomer of good size and form. Color white with crimson center. General appearance is bright with decided contrast in color. Each 15c.

EUROPA.—A splendid new sort of bright, attractive appearance. Florets are white with rose pink eye. The plants grow tall and strong and bear large heads of bloom in abundance. Each 15c.

ECLAIREUR.—Light purplish crimson with an outer shading of lighter pink. An attractive flower and plant of good habit. Each 15c.

HERMINE.—Most dwarf sort, growing only about 10 inches high. Pure white flowers. Suitable for outer edging of phlox bed. Each 10c.

HENRY MURGER.—Flowers extra large, florets white with very large crimson center. A fine variety. Ea. 15c.

LE PROPHET.—Large flower of dark bluish violet. One of the best of this shade. Each 20c.

MISS LINGARD.—A tall growing sort with large blooms. Florets white with rather small red eye. Early and free bloomer. Each 15c.

OBERTGARTNER WITTIG.—This is one of the finest of phloxes. Strong growth, large truss and flower of bright purplish red with bright carmine eye. Each 15c.

PANTHEON.—Bright carmine rose blossom of great beauty. One of the most popular. Each 15c.

VAN LOSSBURG.—A magnificent pure white variety. Not only the flower heads are extra large, but the individual florets are larger than ordinary kinds. Each 15c.

VESUVIUS.—This is a very bright, attractive sort. In color bright red with purple eye. A combination quite distinctive. Good blooms on strong plants. Each 15c.

PHLOX COLLECTION.—One each of the twelve above varieties, postpaid for only \$1.50.

MIXED VARIETIES.—A fine assortment. Each 10c; dozen \$1.00. Large field-grown clumps, each 25c.

CREEPING PHLOX

(*Phlox Sublata*).—The Creeping Phloxes have a charming beauty and, for general usefulness, are not surpassed by any flower that grows. They will thrive in any situation, except a very shady one; and in any soil, no matter how poor, unless it is very wet. They are absolutely hardy without protection. They have neat, evergreen foliage, and when in bloom, during the months of April and May, their multitude of lovely pink, white or blue flowers cover everything beneath as completely as carpets cover the floor. Bloom again in September, but not so freely. They do well on good soil, but are also desirable for covering rocky hillsides, sandy slopes, bare ground too poor to grow anything else, and for edging borders of hardy plants or shrubbery they are not to be surpassed. Botanically known as *Phlox Sublata*, or CREEPING PHLOX. We can furnish three colors: Pure white, deep pink, and light blue. Each 10c, dozen \$1.00, 100 for \$7.00.



GARDEN PINKS

Dwarf hardy garden plants that will grow anywhere and increase in beauty every year. A universal favorite because of its delightful clove-like fragrance.

LAURA WILMER. — A choice variegated sort of great beauty. Each 15c, dozen \$1.25.

ABBOTSFORD. — Deep carmine, marbled with white; has clove fragrance. Each 15c, dozen \$1.25.

ELSIE. — Bright rose with maroon center. A general effect pleasing and attractive. Each 15c, dozen \$1.50.

HER MAJESTY. — A grand variety; plants grow to an immense size, spreading and producing great numbers of pure white, double flowers. Ea. 15c, doz. \$1.25.

HOMIER. — Flower contains a dark center in bright red ground color. Each 15c, dozen \$1.50.

MIXED VARIETIES. — Desirable for large beds or borders. Doz. 65c, 100 for \$4.00.

Large clumps named varieties of Garden Pinks 25c each, per dozen \$2.00.



**GOLDEN GLOW
RUDBECKIA**

GOLDEN GLOW. — A glorious, well known and very popular hardy plant that should find a place in every garden. It is of extra fine habit; vigorous growth, with early, continuous and immense blooming qualities. The stems are long and gracefully poised. It attains a height of 6 to 8 feet, and a small plant set out in the spring will produce hundreds of blossoms during August and September, each as large as a good sized chrysanthemum. It is of easiest culture and is sure to please all. Nice for screen row at back of lawn. Price 15c, doz. \$1.25.

PLATYCODON

(*Wahlenbergia*)

A bushy, herbaceous plant 2 to 3 feet, with handsome, deep green foliage and bearing grand clusters of beautiful white, lavender and blue, large, bell-shaped flowers; blooms very profusely and continuously all summer. Each 20c.

SEA PINK

ARMERIA, OR THRIFT. — Foliage narrow and grass-like; bears compact heads of flowers of handsome pink. Entirely hardy. Each 10c, doz. \$1.00.

SWEET WILLIAM

Well known, free blooming, hardy perennial plants which produce masses of lovely, brilliant, sweet-scented flowers through a long period, making a splendid effect in beds. One foot high. Flowers are borne on heads or umbels with individual flowers nearly an inch across. Color white, pink, crimson, purple, etc., with rich markings. Each 15c; dozen \$1.00.

**VIOLETS**

Of all perfumes that of violets is no doubt the most delicate and pleasant. Grow and bloom freely if given a cool situation, but will not succeed in a warm place. Cover well to insure protection in winter.

SWANLEY WHITE. — Finest double variety. Of vigorous growth, producing a great many pure white, double flowers. Has such delightful odor it is called "Queen of Fragrance." Each 15c, dozen \$1.50.

LADY CAMPBELL. — To contrast with white. Color deep violet blue; very fragrant; continual bloomer. Is of easy growth. Each 15c, dozen \$1.50.

PRINCESS OF WALES. — Broad, pansy-like flowers of a beautiful violet purple shade, with lighter center. A vigorous growing plant with clean, healthy foliage and stiff, long stems. Each 10c, dozen \$1.00.

YUCCA

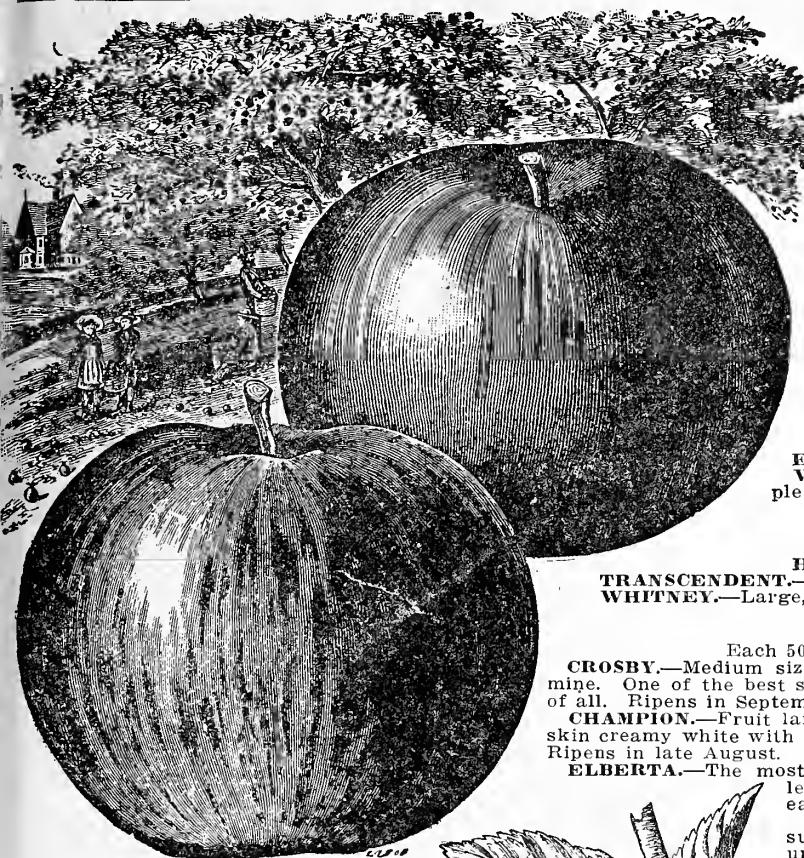
FILAMENTOSA. — (Adam's Needle.) — Tropical looking plant with long, narrow leaves, remains green entire year. Grows in clumps and throws up flower stalks from 3 to 4 ft. high, from which hang 100 to 300 creamy white, bell-shaped flowers. It blooms a long time. Each 15c, dozen \$1.50. Strong two-year-old 30c.



YUCCA FILAMENTOSA.



BLUE SPIREA



DUCHESS AND JONATHAN APPLE.

APPLES

Price 60c each, \$6.00 per doz., 100 for \$50.00.

Summer Varieties.

YELLOW TRANSPARENT.—Very early; light yellow; medium size; juicy, sub-acid.**RED JUNE.**—Choice quality, very early, bright dark red, small to medium size.**BENONI.**—Medium size, bright red; rich flavor, tender and juicy. Very productive.**DUCHESS.**—Yellow, striped red; medium to large; extremely hardy and productive.**EARLY HARVEST.**—Large, golden yellow; splendid quality. Very popular in Iowa for many years.

Autumn Varieties.

MAIDEN'S BLUSH.—Yellow with beautiful blush cheek. Good quality. Medium large.**FAMEUSE.**—(Snow Apple.)—Deep dark red, flesh very white, juicy and rich. Splendid sort.**RAMBO.**—Small to medium, striped yellow and red. Quality extra choice.**AUTUMN STRAWBERRY.**—Beautiful striped fruit of yellow and red. Medium size, fine quality.**RAMSDELL SWEET.**—Large. Rather oblong shape. Dark red. Best fall sweet apple.

Winter Varieties.

BALDWIN.—Famous eastern market apple. Large, bright red, crisp, juicy and rich.**BANANA.**—Large, golden yellow, blush cheek. Of splendid quality. Popular with western orchardists.**BEN DAVIS.**—Large, red, striped yellow, good quality, good keeper. Profitable market sort.**DELICIOUS.**—Large, brilliant red, shading to a golden yellow at blossom end. Extra quality.**GRIMES GOLDEN.**—Large, golden yellow. Favorite sort because of extra choice quality.**GENETIN.**—(Rawle's Janet.)—Small to medium, red and yellow striped. Very productive, long keeper.**JONATHAN.**—Most popular of all. Large, deep red. Rich flavor, juicy and sweet.**NORTHWESTERN GREENING.**—Large, light green. The fruit has been kept for a year.**TALMAN'S SWEET.**—Medium size. Pale whitish yellow. Good quality. Standard sweet apple.**WEALTHY.**—Large, red, showy, sub-acid and productive. Most popular of all.**WINE SAP.**—Medium. Deep red. Quality very fine. Rich, crisp flesh, sub-acid flavor. Very popular.**WOLF RIVER.**—Largest of all; grow to weigh 4 lbs. Quality fair. Yellow, striped light red. Productive.

NURSERY STOCK

All fruit trees on this page are two and three years old, five to seven feet high, carefully packed, and are sure to please.

Orders cannot be executed after May 1st, as stock does not transplant well after the growth begins.

Fifty or more of any sort sold at the hundred rate; purchaser to pay transportation charges by express or freight on all nursery stock unless otherwise quoted. Orders must amount to at least one dollar. These are shipped direct from the nursery and cannot be sent with other goods. Ask for special prices on large orders.

CHERRIES

Price 65c each, dozen \$6.50, 100 for \$60.00.

EARLY RICHMOND.—Medium size, dark red, juicy, acid flavor. Unsurpassed for cooking. Standard early variety in Middle West.**MONTMORENCY.**—Large red acid cherry. Is larger than Early Richmond and about ten days later. A superior sort for home use.**ENGLISH MORELLO.**—Deep, dark red. Late.**WRAGG.**—Large, late acid variety, dark purple; very productive.

CRAB APPLES

Price 50c each, \$5.00 per dozen.

HYSLOP.—Small, dark red, splendid variety.**TRANSCENDENT.**—Small, yellow, popular variety.**WHITNEY.**—Large, bright red, vigorous and productive.

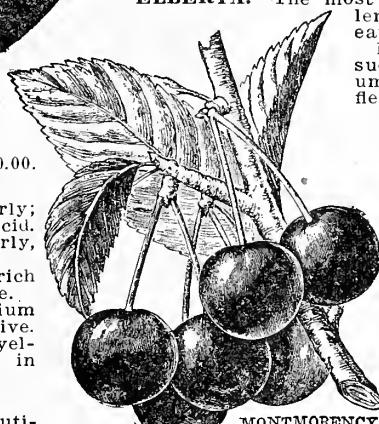
PEACHES

Each 50c, dozen \$5.00, 100 for \$40.00.

CROSBY.—Medium size, bright orange yellow, streaked with carmine. One of the best standard sorts and claimed to be the hardest of all. Ripens in September.**CHAMPION.**—Fruit large, beautiful in appearance, excellent flavor, skin creamy white with red cheeks, extremely hardy with free stones. Ripens in late August.**ELBERTA.**—The most popular early market sort. Large, bright lemon yellow, with blush cheeks. Ripens in early August.**BOKHARA.**—Originally from Russia. Grown successfully in Iowa. Freestone. Fruit medium size, handsome yellow with blush cheek; flesh white, juicy, fine flavored. Medium early.

PLUMS

By exp., each 65c, dozen \$6.50, 100 for \$60.00.

ABUNDANCE.—Hardest of Japanese varieties. Large, showy and fine quality.**BURBANK.**—Considered by some to be the best of all the European sorts. Color clear cherry red with thin lilac bloom. Flesh deep yellow, very sweet and agreeable.**DE SOTO.**—Bright red. Very prolific, of good quality. A standard native variety.**FOREST GARDEN.**—Large, mottled red and yellow, very sweet and rich.**WEAVER.**—Flesh firm, red, juicy, with flavor resembling apricot, freestone, early bearer and very productive, hardy and said to be curculio proof.**WILD GOOSE.**—Large, rich and melting; delicious. Strong grower and prolific.

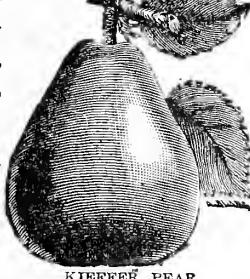
MONTMORENCY CHERRY.



BOKHARA PEACH



ABUNDANCE PLUM



KIEFFER PEAR

PEARS

Any of following by exp. 60c each, dozen \$6.00.

CLAPP'S FAVORITE.—Very large, yellow and dull red with russet specks. Rich and melting. Ripens in August.**KIEFFER.**—Large, rich colored and good quality. Excellent for canning; will keep until winter. Hardy. Ripens in October.**BARTLETT.**—Large size, excellent quality. A leading variety. Ripens in August.**SECKEL.**—Small, but of excellent quality; very hardy. Ripens in September.**WORDEN SECKEL.**—Seedling of Seckel but larger. Best quality. Ripens September.

SHADE TREES

We shall be pleased to supply our customers with any of the following Shade or Ornamental Trees at prices given. Please remember in ordering them that they come direct from the nursery and cannot be shipped in the same package with any other goods except nursery stock.

ASH—American White.—Fine, hardy trees of symmetrical, rapid growth. 5 to 6 ft., 40c each; \$3.50 per 10. 6 to 8 ft., 60c each; \$5.50 per 10.

BOX ELDER.—Well known, quick-growing, hardy tree. Succeeds everywhere. 5 to 10 ft., each 40c; \$3.50 per 10. 6 to 8 ft., 60c each; \$5.50 per 10.

CAROLINA POPLAR.—Takes first rank among rapid growing trees. It thrives everywhere. Resembles Cottonwood but does not bear seed. 5 to 6 ft., 30c each; \$2.50 per 10. 6 ft. to 8 ft., 40c each; \$3.50 per 10.

CATALPA SPECIOSA.—Fine, rapid grower. Valuable also for timber, posts and cross-ties. Popular in semi-arid regions. 5 to 6 ft., 40c each; \$2.50 per 10. 6 to 8 ft., 60c each; \$5.50 per 10.

ELM—American White.—Well known, beautiful shade and park tree. 5 to 6 ft., 40c each; \$4.00 per 10. 6 to 8 ft., 60c each; \$5.50 per 10.

LINDEN—American.—Known also as Basswood or Whitewood. A fine spreading native tree with large leaves and fragrant flowers. 5 to 6 ft., 60c each; \$5.00 per 10. 6 to 8 ft., 75c each; \$6.50 per 10.

LOCUST—Black.—Make rapid growth; valuable post timber. 5 to 6 ft., 30c each; \$1.50 per 10. 6 to 8 ft., 50c each; \$4.50 per 10.

LOCUST—Honey.—A new variety, entirely thornless. Handsome, well known native tree. 5 to 6 ft., 60c each; \$5.00 per 10. 6 to 8 ft., 80c each; \$7.00 per 10.

MAPLE—Soft or Silver.—Valuable for producing quick shade. 5 to 6 ft., 40c each; \$3.50 per 10. 6 to 8 ft., 60c each; \$5.50 per 10.

MAPLE—Hard or Sugar.—Slow grower but very hardy, valuable and beautiful. 5 to 6 ft., 80c each; \$7.50 per 10. 6 to 8 ft., \$1.00 each; \$8.50 per 10.

SYCAMORE—American.—Lofty, spreading tree with handsome broad leaves. 5 to 6 ft., 80c each; \$7.50 per 10. 6 to 8 ft., \$1.00 each; \$9.00 per 10.

Five trees of a kind will be sold at the ten rate. Can furnish stock in any size larger than given above. Write for prices.

LAWN TREES

BECHTEL'S FLOWERING CRAB.—Medium size tree and large, very double, fragrant flowers. 2 to 3 feet, \$1.00 each. 3 to 4 ft., \$1.50 each.

CHESTNUT — The American Sweet.—Well known; valuable for nuts and lumber. 5 to 6 ft., 60c each; \$5.00 per 10. 6 to 8 ft., 75c each; \$6.50 per 10.

MOUNTAIN ASH.—A fine, hardy, small tree. Bears red berries. 5 to 6 ft., \$1 each; \$8.50 per 10. 6 to 8 ft., \$1.25 each; \$10 per 10.

NORWAY MAPLE.—Hard wood, fine foliage, with beautiful spreading top. 5 to 6 ft., \$1.00 each; \$8.50 per 10. 6 to 8 ft., \$1.25 each; \$10 per 10.

SCHWEDELER'S MAPLE.—Red foliage in spring changing to green in summer and red again in the fall. A beautiful tree for parking. 5 to 6 ft., \$1.50 each; \$12.50 per 10. 6 to 8 ft., \$2.00 each; \$18.00 per 10.

WEEPING TREES

WEIR'S CUT LEAF MAPLE.—Cut leaves, very hardy and graceful. 5 to 6 ft., 60c each; \$5.00 per 10. 6 to 8 ft., 85c each; \$7.00 per 10.

WEEPING CUT LEAF BIRCH.—Perhaps the most elegant of all lawn trees. Delicate foliage, silvery white bark. Tall and slender but a vigorous grower. Every householder should have one or two specimens. 4 to 5 ft., \$1.00 each; 5 to 6 ft., \$1.25 each; 6 to 8 ft., \$1.50 each.

WISCONSIN WILLOW.—An upright grower but with drooping twigs. 5 to 6 ft., 50c each; 6 to 8 ft., 75c each.

TEA'S WEEPING MULBERRY.—Very distinct and beautiful. Quite hardy. 1-year, each \$2.25.

EVERGREENS

Our evergreens are all nice shapes and packed to reach you in good condition.

Variety	Size	Each	Doz.
American Arbor Vitae	12 to 18 in.	.40	\$ 4.00
American Arbor Vitae	18 to 24 in.	.50	5.00
American Arbor Vitae	24 to 36 in.	.75	7.50
Scotch Pine	12 to 18 in.	.40	4.00
Scotch Pine	18 to 24 in.	.50	5.00
Scotch Pine	24 to 36 in.	.75	7.50
Norway Spruce	12 to 18 in.	.40	4.00
Norway Spruce	18 to 24 in.	.60	6.00
Norway Spruce	24 to 36 in.	.85	9.00

Certificate No. 26.

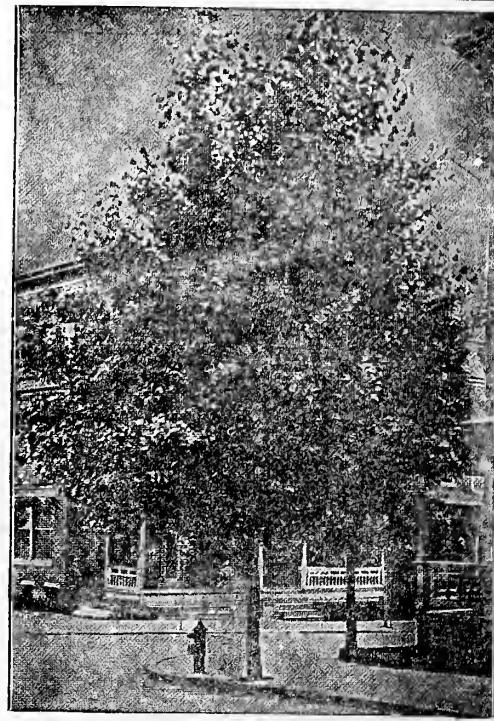
State of Iowa.

CERTIFICATE OF NURSERY INSPECTION

Office of State Entomologist, Ames, Iowa.

This is to certify that in accordance with Chapter 53 of the Acts of the Twenty-seventh General Assembly, as amended by the Thirty-first General Assembly, the nursery stock for sale by the Iowa Seed Company, of Des Moines, Iowa, has been inspected by a duly authorized inspector and has been found apparently free from dangerously injurious insect and plant diseases. This Certificate is invalid after July 31, 1919.

R. L. WEBSTER, State Entomologist.



HARD OR SUGAR MAPLE.

NURSERYMEN'S SUPPLIES

GRAFTING WAX.—A special preparation for application where trees have been pruned; for preventing the loss of sap where wounds are made in the bark or from broken limbs and to hold grafts together while parts are growing together. Price, $\frac{1}{2}$ lb. pkg. 15c; mailing weight 1 lb.

TREE PRUNER.—Strong wooden handles 24 inches long; 1 $\frac{1}{4}$ inch cut; powerful and effective. The best pruner where branches are within reach. Each \$1.25. Mailing wt. 4 lbs.

WATER'S TREE PRUNER.—The standard make; with 6-ft. pole \$1.00; 8-ft. pole \$1.20; 10-ft. pole \$1.40. Can't mail.

IMPROVED HAND PRUNING SHEARS.—The best hand shears on the market. Made specially for pruning berry or rose bushes, grape vines, etc. Made of best steel, 8 inches long, straight spring (can't lose out). Price \$1.25. Mailing weight 1 lb. each.

CONNECTICUT PRUNING SHEARS.—A good tool for most work. Steel blades, spring, and malleable handles. Price 50c. Mailing wt. 1 lb.

TREE PROTECTORS.—Made of veneer like berry boxes, dipped in creosote to drive away vermin and make them impervious to weather. Used by simply bending around the tree. Effective against rabbits, ground squirrels, mice and vermin. Per 100 \$1.00; 1,000 for \$8.00. Wt. 25 lbs. per 100.

TREE LABELS.—3 $\frac{1}{2}$ -inch, plain, copper wire. Per 100 25c, per 1,000 \$2.00. Not wired, per 100 20c, per 1,000 \$1.50. Mailing weight 4 lbs. per 1,000.

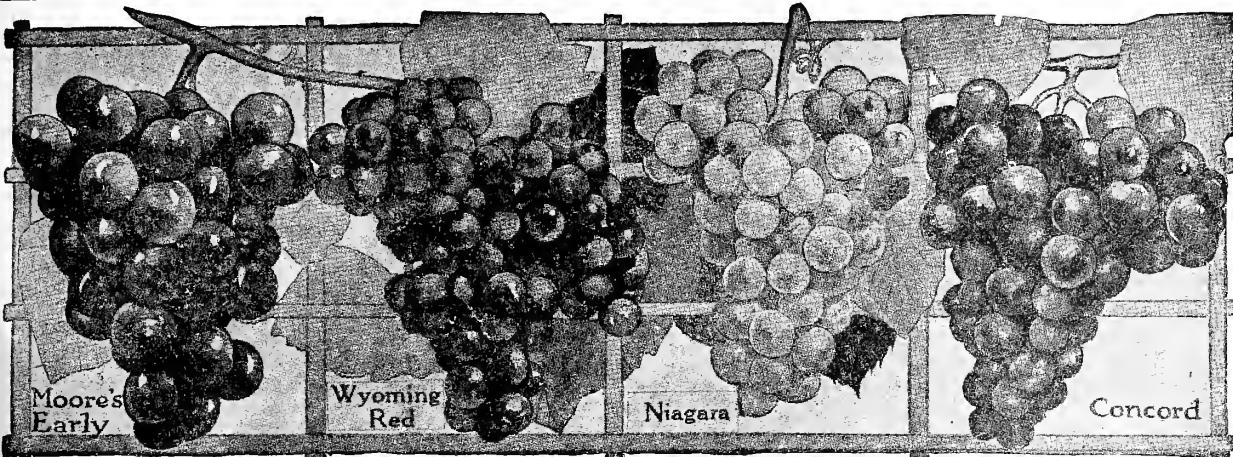
POT LABELS.—Smooth wood labels, 4-in. per 100 20c, per 1,000 \$1.50; 6-in. per 100 25c, 1,000 \$2.25; 10-in. per 100 50c, per 1,000 \$4.75. Mailing wt. 4-in. 4 lbs.; 6-in. 6 lbs.; 10-in. 10 lbs. per 1,000.

SPHAGNUM MOSS.—For packing plants and soft nursery stock. Write for price in quantity. Large wired bale \$1.25; burlap covered bale \$2.00.

CANE PLANT STAKES.—Straight bamboo canes 6 feet long. Per 100 \$1.50. Not mailable.



NORWAY SPRUCE.



GRAPES

Our grape vines are No. 1 one-year vines which experience has shown to be the best size for transplanting. The most robust vines are marketed by nurserymen generally at one year old; the culls grown another season and sold as two-year-olds. Write for prices in large lots.

AGAWAM.—Berries are very large and bright red, with thick skin; very vigorous grower. The fruit is of good quality. Each 15c, doz. \$1.50, per 100 \$10.00.

BRIGHTON.—Of best quality. Bunch and berry large, of bright red color, and it is quite productive. Each 20c, doz. \$2.00, per 100 \$10.00.

CAMPBELL'S EARLY.—Strong grower, large, with healthy foliage. Very productive; keeping and shipping qualities unequalled by any early grape. Ripens with Moore's Early. Bunch and berry large, glossy black with blue bloom. Sweet and juicy; clusters usually shoulder. Ea. 25c, doz. \$2.50, 100 \$12.

CONCORD.—Well known standard black sort. Succeeds everywhere. Ea. 15c, doz. \$1.50, 100 \$10.

MOORE'S EARLY.—Bunch large, berry very large and round, vines are exceedingly hardy. Desirable early market black variety. Very popular with Des Moines growers. Ea. 20c, doz. \$2.00, 100 \$12.

NIAGARA.—A leading white sort; very productive and hardy. Bunch is white, changing to pale yellow when fully ripe; skin is thin and tough. Quality extra fine. Each 15c, doz. \$1.50, 100 \$10.

WORDEN.—Large grape of the Concord type, earlier, larger, hardy and more productive. Each 15c, doz. \$1.50, per 100 \$10.00.

WOODRUFF.—Is of iron-clad hardness, rank grower and very healthy. Ripens soon after Concord and POMONA Currant stands at head of list of red sorts for market sort. Ea. 25c, doz. \$2.50, 100 \$15.00.

WYOMING RED.—Claimed to be as choice in quality as the Delaware. Fruit is larger and brighter red than that sort. Each 20c, doz. \$2.00, per 100 \$10.00.

RASPBERRIES

Our varieties are all tip grown plants. We do not sell sucker plants, nor varieties which propagate from suckers.

ST. REGIS.—Everbearing red variety. Spring set plants bear the first year, continuing to fruit until late in fall, late crop coming on the tips of new canes. Hardy and the best everbearing red raspberry. Dozen 60c, 100 for \$4.00.

NEW CARDINAL.—Surprises all by its great growth, extreme hardness, great productiveness and the unusual richness of its flavored, large, purple berries. Doz. 50c, 100 \$4.

CUMBERLAND.—One of the best of blackcap variety. It is of very large size, good quality, firm and handsome, and an excellent shipper. Plants vigorous and hardy, productive and free from disease. Dozen 50c, 100 for \$4.00.

KANSAS.—Ripens about one week earlier than Gregg. Fruit large and firm. Valuable as a home or market variety. Dozen 50c, per 100 \$4.00.

GREGG.—Hardy and excellent. Has been leading blackcap sort for many years. Doz. 50c, 100 \$4.00.

COLUMBIAN.—This is a leading purple variety. Fruit is rich and sprightly in flavor, and is superior for canning, jam or preserving. Grows very large, strong and vigorous and yields immensely. Doz. 60c, per 100 \$4.00.

CURRENTS

Cannot ship west of Missouri River.

POMONA.—Most productive and vigorous. Ripen early but remain on the bush longer than any other; remarkably fine quality. Each 15c, doz. \$1.25.

FAY'S PROLIFIC.—One of the most prolific, of excellent quality. Each 15c, doz. \$1.25.

WHITE GRAPE.—Standard variety. Fruits are light colored, mild and fine flavor. Each 15c, doz. \$1.25.

GOOSEBERRIES

Cannot ship west of Missouri River.

CHAMPION.—A new variety from Minnesota. Hardy, free from mildew, very productive, large size and recommended as the best. Each 20c, doz. \$2.00.

JOSSELYN.—Of superior merit. Is very large, hardy, productive and free from mildew. Each 20c, doz. \$2.00.

PEARL.—One of the most prolific; very hardy, entirely free from mildew. Superior in size and productiveness to Downing. Each 20c, doz. \$2.00.

HOUGHTON.—Pale red, of good quality and is very productive. Each 15c, doz. \$1.50.

DOWNING.—Large, pale green. Each 20c, doz. \$2.00.

BLACKBERRIES

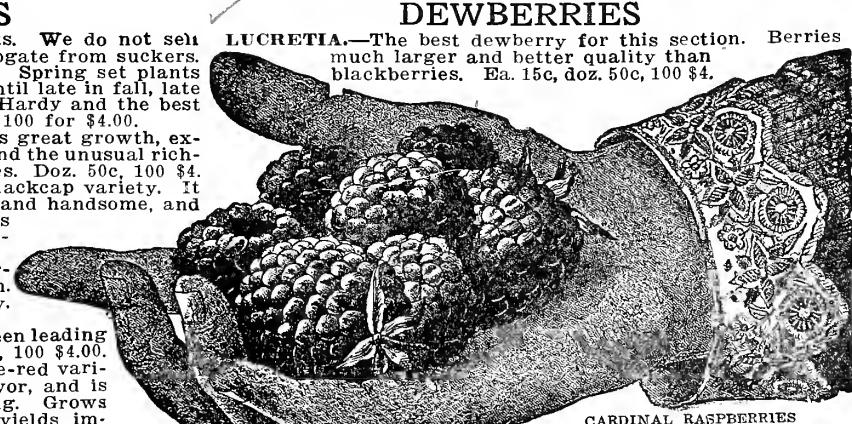
SNYDER.—Is extremely hardy and very productive. Standard sort for the West. No other variety is so prolific or so desirable for shipping. Doz. 50c, 100 for \$4.00.

ANCIENT BRITON.—This is regarded as one of the hardest blackberries and is especially adapted to Iowa, Wisconsin and Minnesota. Dozen 50c, 100 for \$4.00.

BLOWERS.—A sturdy grower and quite hardy. The fruits are large, melting and of splendid quality. Doz. 60c, 100 for \$5.00. SNYDER BLACKBERRY

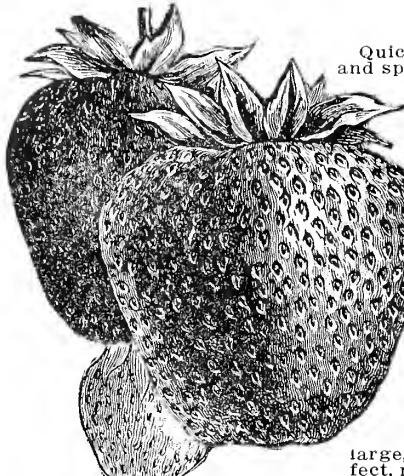
DEWBERRIES

LUCRETIA.—The best dewberry for this section. Berries much larger and better quality than blackberries. Ea. 15c, doz. 50c, 100 \$4.

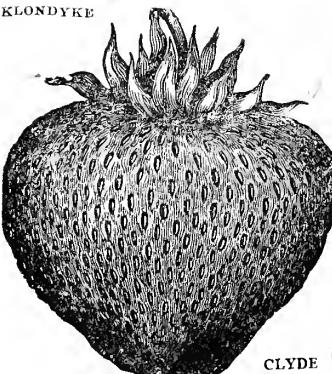


STRAWBERRIES

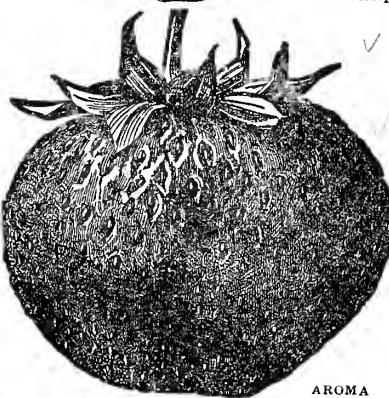
Quick service is necessary in handling strawberry plants, and special packing is required. For these reasons we ship all strawberry plants entirely by themselves. Perfect flowered varieties are marked (s); the imperfect marked (p), must have perfect flowered sorts planted with them or they will not fruit. Ask for price in large lots.



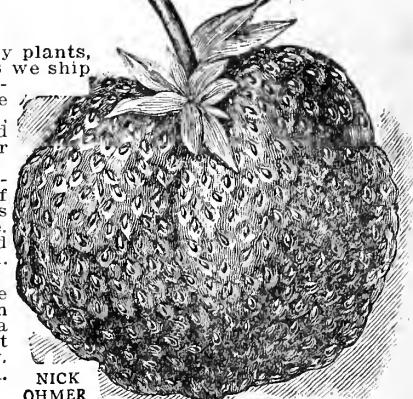
KLONDYKE



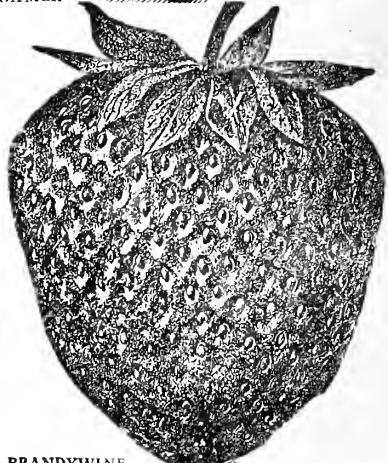
CLYDE



AROMA



NICK OHMER



AROMA (s).—The best and most profitable late berry. It is very prolific and of most excellent color and quality. Plants strong, vigorous and free from disease. Fruits very large, roundish, conical, and glossy bright red. Per 100 \$1.25, postpaid. By express, per 100, \$1.00, 500, \$5.00.

BEDERWOOD (s).—This is one of the best known varieties for planting with the Warfield or Crescent, as it produces a large amount of pollen. It is of excellent color and a good shipper. Ripens early. Per dozen 30c; per 100, \$1.25, postpaid. By express, per 100, \$1.00; 500, \$5.00.

BRANDYWINE (s).—Large berry, vigorous, strong grower, and makes a large, heavy plant. It is fine for market, being large, firm, and handsome red color. Blooms perfect, making it a good fertilizer for other sorts. Doz., 30c; 100 \$1.25, postpaid. By exp., 100 \$1.00; 500 \$5.00.

BUBACH (p).—Its large, uniform size, fine form and color, unsurpassed productiveness and great vigor combine to make it a leading sort. Rather late in maturing. Per doz., 30c; 100, \$1.25. By express, 100 for \$1.00; 500, \$5.00.

CLYDE (s).—One of the most popular varieties in the West. It is of vigorous growth and very productive. Berries deep scarlet and moderately firm. Decidedly the best early sort. Per doz., 30c; 100, \$1.25, postpaid. By express, 100, \$1.00; 500 for \$5.00.

CRESCENT (p).—One of the old standard varieties, will produce a large crop where other sorts would fail, as it will stand an unusual amount of neglect. The berry is of medium size and good quality. Per doz., 25c; per 100, \$1.25, postpaid. By express, per 100, \$1.00; 500 for \$5.00.

KLONDYKE.—If you want a good berry that will bring top price, and ship anywhere, plant this sort. Plants strong, vigorous and productive. Fruits are large, firm and well flavored. Per doz., 20c per 100 \$1.25, postpaid. By express, 100, \$1.00; 500 for \$5.00.

NICK OHMER (s).—Very large in size, uniform in shape; dark, glossy red; firm and excellent flavor. **BRANDYWINE**. Season rather late. Doz., 40c; 100, \$1.50, postpaid. By express, per 100, \$1.25; 500 for \$5.00.

SENATOR DUNLAP (s).—Medium sized sort; is very hardy, productive, a vigorous grower. Bears until quite late. Unsurpassed in quality; claimed best all around variety. Doz., 40c; 100, \$1.25, postpaid. By express, 100, \$1.00; 500 for \$5.00.

WARFIELD (p).—One of the best known market berries, medium size, excellent quality, and a good shipper. One of the best early sorts and maintains its size well throughout the season. Doz., 25c; 100 \$1.25, postpaid. By express, 100, \$1.00; 500 for \$5.00.

OUR FAMOUS STRAWBERRY BARGAIN

For several years we have featured this bargain collection with wonderful satisfaction to our customers, thousands of whom have taken advantage of our knowledge of varieties and special facilities to supply choice plants.

25 Each Sen. Dunlap, Bederwood, Warfield, Aroma

Four varieties, furnishing both male and female blossoms suitable to grow together and give a succession of fruit all season, 100 plants in all (just enough for a home **SENATOR** bed), well rooted, vigorous and young plants that have **DUNLAP** never fruited. Postpaid for \$1.00.

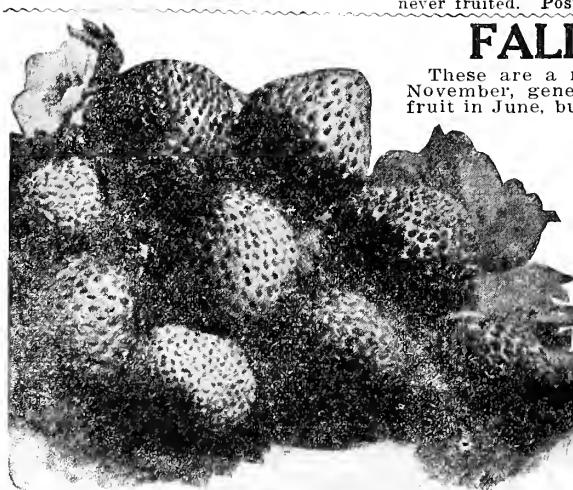
FALL BEARING STRAWBERRIES

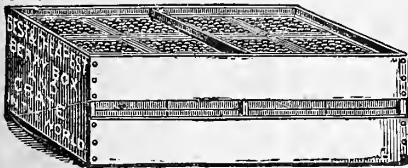
These are a new race of strawberries that produce ripe fruit in October and November, generally lasting until hard, killing frosts. They have a tendency to fruit in June, but if permitted to bear at this time the fall crop is curtailed. Pinch off the blooms that set up to July 1st and you will have fine fruit for fall use. Fruit the first year from spring set plants, and if you want strawberries next fall plant the everbearing sorts now and get a crop up to Thanksgiving. Produced remarkably well in 1915 because of the favorable season. When first introduced, fruits were small, production was limited and they were not favorably received. After several years' breeding, however, they have been greatly improved and we are now ready to recommend the varieties which we list. Constant improvement is being made in the fall bearing varieties. No doubt they will soon be as general as the spring sorts.

SUPERB.—This variety is most widely known and one of the best. Shape is somewhat uneven, like the Nick Ohmer shown above. Berry is large, deep crimson in color, firm and solid, and of excellent quality. Very prolific and a strong grower.

PROGRESSIVE.—A cross of Senator Dunlap on the Pan American, which was the first of the fall bearing varieties. It retains the habit of final fruiting, while the berries resemble in form and color the Dunlap. The plant is very vigorous and productive, and it holds first place among fall bearing sorts as the Dunlap does among the common kinds.

PRICES: Either Superb, Progressive, or both: Per dozen, 50c; per 100, \$2.50; 200, \$4.50, postpaid. By express, not prepaid, 300 for \$6.00.





BERRY BOXES.—Made of the best white wood (poplar), heart stock, cut smoothly, and perfect shape, size $4\frac{1}{4} \times 4\frac{3}{4} \times 3\frac{3}{4}$, to hold a dry measure quart. The bottom is set up for ventilation. Usually put up in bundles of 500 boxes complete for shipment and all ready for putting together, which can be done very rapidly. 500 at the 1,000 rate; broken bundles at the 100 rate. Price per 100 50c; 1,000 \$4.00; 10,000 or more at \$3.70. Weight, 10 lbs. per 100.

PINT BOXES.—Same as regular quart size except they are only two inches high. For red raspberries and other soft fruits. Price same as quarts.

CRATES.—Made of thoroughly seasoned stock, well ventilated at sides and bottom, but with a tight cover to protect from dust. We always ship in the flat or "knock down." They make a neat, strong and cheap package holding 16 to 24 quart boxes. Price: 16-qt. crates per 10 \$1.30, per 100 \$12.00; 24-qt. crates per 10 \$1.50, per 100 \$14.00. Weight, 16-qt., each 4 lbs.; 24-qt., each 5 lbs.

FRUIT PACKAGES

We are prepared to furnish you the best stock made, at low prices. We handle a great many carloads each year, and from our long experience of more than a quarter of a century we are enabled to select superior stock. It pays to have bright stock which will make the fruit look nicer and sell better. Prices named here are subject to change during season. All goods in this department go by freight or express at customer's expense for carriage. If wanted by mail figure from Parcel Post Table on page 2, from weights given for each item, and send postage necessary.

CRATES FOR PINT BOXES.—24-pt. size, per 10, \$1.20; 100 for \$10.00. Weight $3\frac{1}{2}$ lbs. each.

CRATE NAILS.—Far superior to common nails, as they hold much better. Ten pounds (makes 100 crates) \$1.00.

ANNEALED TACKS.—Made of the very best Swedes iron and of proper length so that they go through either two or three thicknesses of the material and clinch to hold securely. A lb. will make 1,000 boxes. Lb. 45c, 3 lbs. \$1.25.

WIRE STAPLING MACHINE—Standard.—For making berry boxes. The latest improved, operated by foot power, and can be easily operated by any one. Makes boxes very rapidly. Made in two sizes and can be shipped direct from the factory in Michigan at the following low prices: No. 1 (standard size) each \$4.00.

STAPLING WIRE.—To use with the above machine for making boxes. Per coil of 12 lbs. \$1.80, 5 coils or more at \$1.75 per coil.

MAGNETIC TACK HAMMER.—Picks up the tacks and saves much of the labor. Each 20c. Mailing weight 1 lb.

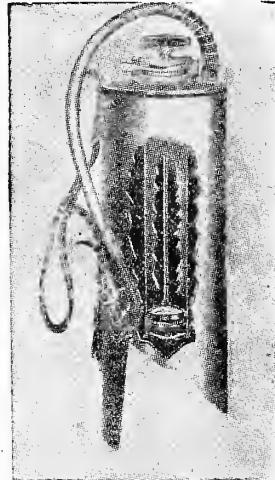
SPRAYERS

Each year proves the importance of spraying fruit trees and plants in order to destroy the insects and secure a good crop of fruit. The largest and most successful fruit growers are the most enthusiastic on spraying. It will pay you to invest in spraying apparatus if you have only one fruit tree. The spraying of apple and plum trees is especially recommended. A circular giving full information mailed free on request. All spray pumps are sent by freight or express, not prepaid, except where noted.

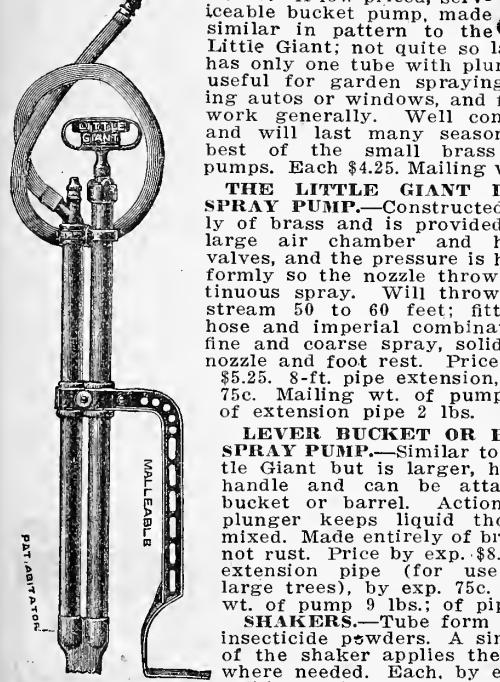
DAISY SPRAYING PUMP.—This popular little sprayer is shown by our illustration. We sell hundreds of these which are used for spraying insecticides and whitewash in the poultry house, also for spraying fruit trees and plants. Can be changed to throw a solid stream 20 to 30 feet high and used for washing windows, buggies, etc. By exp., not prepaid, \$1.50. If to go by mail add postage for mailing, weight 3 lbs.

THE AUTO-SPRAY NO. 1.—Compressed Air Sprayer.—Our choice of compressed air pumps because of strength and simplicity. Will not get out of repair and is kept absolutely clean without difficulty. Diameter 7 inches; height 2 feet; capacity $3\frac{1}{2}$ gallons; weight empty 7 lbs.; weight loaded 39 lbs.; weight shipping 15 lbs. Illustration shows mechanism. If additional information is wanted, send for circular of the Auto-Spray. Prices: Auto-Spray No. 1B, brass tank with "Auto-Pop," \$12.00. Auto-Spray No. 1D, galvanized tank with "Auto-Pop," \$8.00. Two-foot brass extension rod, postpaid, 75c.

IMPROVED FAULTLESS, or "Misty" Sprayer.—Shaped like the standard Faultless, but the spray nozzle protrudes through the tank, making it stronger. Mailing weight 2 pounds. By express, brass \$1.00; galvanized iron 75c; tin 50c.



AUTO SPRAYER



LITTLE GIANT PUMP

LOWELL BUCKET PUMP.—A low priced, serviceable bucket pump, made similar in pattern to the Little Giant; not quite so large. It has only one tube with plunger. Is useful for garden spraying, washing autos or windows, and for light work generally. Well constructed and will last many seasons. The best of the small brass bucket pumps. Each \$4.25. Mailing wt. 5 lbs.

THE LITTLE GIANT BUCKET SPRAY PUMP.—Constructed entirely of brass and is provided with a large air chamber and has ball valves, and the pressure is held uniformly so the nozzle throws a continuous spray. Will throw a solid stream 50 to 60 feet; fitted with hose and imperial combination fine and coarse spray, solid stream nozzle and foot rest. Price by exp. \$5.25. 8-ft. pipe extension, by exp. 75c. Mailing wt. of pump 7 lbs.; of extension pipe 2 lbs.

LEVER BUCKET OR BARREL SPRAY PUMP.—Similar to the Little Giant but is larger, has lever handle and can be attached to bucket or barrel. Action of the plunger keeps liquid thoroughly mixed. Made entirely of brass, will not rust. Price by exp. \$8.00. 8-ft. extension pipe (for use among large trees), by exp. 75c. Mailing wt. of pump 9 lbs.; of pipe 2 lbs.

SHAKERS.—Tube form to apply insecticide powders. A simple tap of the shaker applies the powder where needed. Each, by exp., 50c. Mailing weight, 1 lb.



FAULTLESS SPRAYER

CONTINUOUS FAULTLESS SPRAYER.—Is made like the old standard Faultless Sprayer which is the most popular of this type. Made in such a way that the action of the plunger forces a continuous fine mist spray and drawing back plunger does not stop flow as in old style sprayer. Add postage for mailing, wt. 2 lbs. By exp., brass \$1.50, tin, 75c.



FAULTLESS POWDER SPRAYER

Made of tin after the Faultless pattern, for use in applying Slug Shot, lime, Paris green mixture or any powder form of insecticides. Light and easily handled. Does the work perfectly and it is the most economical method in quantity of powder applied. It is cheap and effective. If to go by mail add postage for mailing. By exp., not prepaid, \$1.00. Mailing weight 4 lbs.

DUSTERS.—Buckets with perforated bottom, used for applying Slug Shot or other forms of powdered insecticides. Each, by exp., 70c. Mailing wt. 1 lb.

HAMMOND'S SLUG SHOT.—A combination of potent insecticides and soluble plant food. It destroys all insects injurious to shrubs, trees and plants. Poisonous to insects but not to foliage. 1 lb. 20c, 5 lbs. 60c, 10 lbs. \$1.10, 100 lbs. \$10.



SPRAY MATERIALS

SHERWIN-WILLIAMS INSECTICIDES, FUNGICIDES, BUG POISONS

Poisons are not mailable. All items on this page go at customer's expense.

Never in history has it been so necessary to conserve and protect fruit and vegetable crops as it is today, and it has been very forcibly brought out that this applies to the small gardener equally as much as to the largest growers of fruits and vegetables.

Within the recent past, spraying has become a science, experts connected with various State Experiment Stations having done wonderful work in developing the spraying method to a point where all guesswork is eliminated, and it is no longer necessary to use haphazard methods.

Great improvements in manufacturing have also been made, and the old paste and liquid Insecticides and Fungicides have been largely discarded.

The Sherwin-Williams Co., to meet the advanced requirements of spraying, has developed a large line of insecticides in dry powdered form which have many advantages; being much more convenient to handle and to keep until used, as well as being free from the danger of freezing or loss through leakage, and saving a very large part of the cost of transportation.

The Sherwin-Williams line of Insecticides and Fungicides listed below will be found very complete, covering practically every requirement of the sprayer of fruit and vegetables, and will also be exceptionally effective and dependable in control of insect pests.



PARIS GREEN.—Sherwin-Williams Paris Green has by years of use proven its quality. It has become the standard Paris Green in many localities. It is light and fluffy, insuring good suspension in the spray tank and thorough covering of the foliage, contains approximately 56% arsenious oxide and less water soluble than is allowed by the law. It is one of the safest and most effective Paris Greens on the market today. Price: $\frac{1}{4}$ lb. 25c; 1 lb. 80c; 5 lbs. \$3.75.

DRY POWDERED ARSENATE OF LEAD.—Because of its unusual lightness, stays thoroughly in suspension during spraying operations, thus giving the spray uniform strength.

It contains from 30 to 33 per cent arsenic oxide thoroughly in combination with lead and less than 1 per cent water soluble arsenic. This means that it has maximum killing power, speedy action and unquestionable effectiveness in controlling leaf-eating and chewing insects, and, due to its low percentage of water soluble arsenic, there is no danger of burning the foliage. This means that it clings to the foliage for the longest possible time, which means effective control of insects at the lowest possible cost. Price: 1 lb. 70c, 5 lbs. \$3.00, 10 lbs. \$5.75.

TUBER-TONIC.—Dry Powdered Tuber Tonic is a combination spray, having the desirable quick killing properties of Paris green, and adhesiveness of arsenate of lead, and fungus preventive qualities of Bordeaux mixture. Unlike Paris green, it remains on the foliage even when subjected to heavy dews or rains, and future spraying becomes necessary only to protect new growth as foliage appears. Many large potato growers in this country have used Tuber-Tonic with splendid results and reorder year after year. Price: 1 lb. 50c, 5 lbs. \$2.25, 10 lbs. \$4.00.

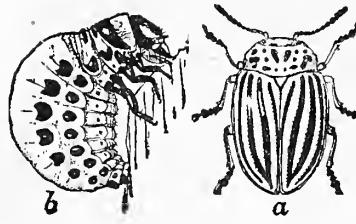
ARSENATE OF CALCIUM.—Arsenate of Calcium is by no means a new insecticide, but is perhaps not quite as well known to many growers as arsenate of lead and Paris green. It is similar in many respects to arsenate of lead, and for many purposes arsenate of calcium is virtually as effective and very splendid results have been secured with it. Sherwin-Williams Arsenate of Calcium contains the maximum quantity of arsenic oxide, namely, 43 per cent, and when used according to directions will give splendid results. It stays well in suspension in the spray tank, insuring even and uniform distribution on the foliage. Price: 1 lb. 60c, 5 lbs. \$2.50, 10 lbs. \$4.75.

NICO-FUME.—A condensed preparation of tobacco almost pure nicotine. Best spraying and fumigating preparation for greenhouse use, since it does not injure plants or blooms and kills aphids, red spider and mealy bugs. Use one ounce in 10 to 15 gallons of water, and it will be even better if a pound of whale oil soap is added. Price: 4-oz. can 75c, 1 lb. \$2.00, 4 lbs. \$7.00.

CROW BRAND INSECT POWDER.—Best grade. Fresh and nice. It does not pay to use cheap, ordinary grades. Splendid for home use to kill cockroaches, ants and flies. Owing to war conditions price on this item is subject to change. By express, $\frac{1}{4}$ lb. 25c, 1 lb. \$1.00.

FUMIGATING AND DUSTING POWDER.—Formerly sold under the name of Tobacco Dust. Destroys rose bugs, lice, cut worms, vine bugs, tomato worms, cabbage lice and parasites of all descriptions. Apply when foliage is wet. Also a fertilizer and will not burn or injure plants. By express, 1 lb. 10c, 5 lbs. for 25c, 100 lbs. \$4.00.

IF YOU WANT SUCCESS WITH YOUR FRUITS AND FLOWERS YOU MUST USE A SPRAYER TO DESTROY THE INSECT PESTS.



FUNGI BORDO.—Dry Powdered Fungi-Bordo is a true Bordeaux mixture in dry powdered form, requiring only to be mixed with cold water to give a standard Bordeaux mixture spray. The convenience and value of having Bordeaux mixture in dry powdered form will be instantly recognized by all fruit growers. Bordeaux mixture is the standard material for the control of diseases in orchard, vineyard and garden. None of the other mixtures are so good for this purpose. The powdered form is easily prepared by simply dissolving in water. Directions on package. Price: 1 lb. 45c, 5 lbs. \$2.00.



DRY LIME SULFUR.—The use and success of Lime-Sulfur solution is known to practically every fruit grower in the country, and every grower is also familiar with the inconvenience and unpleasantness in connection with the handling of liquid lime-sulfur. The barrels are very heavy to handle—there is over 50 per cent water, which means heavy freight charge. It freezes in cold weather and leaks from the barrel in summer and all in all is simply unpleasant to handle. Sherwin-Williams Dry Lime-Sulfur is true lime-sulfur solution in dry powdered form—the first and only one of its kind on the market. It has all the advantages of the liquid material, but eliminates the disadvantage. Its effectiveness has been proven by several years of use by large fruit growers and practically all Experiment Stations. It is protected by U. S. patent. Price: 1 lb. 35c, 5 lbs. \$1.60, 10 lbs. \$2.90, 25 lbs. \$7.00.

INSECTO.—Sherwin-Williams Dry Powdered Insecto is a combination Bordeaux mixture and arsenate of lead developed especially to save the grower the time and trouble of making up and combining Bordeaux solution and the arsenate of lead mixture. It is especially recommended for fruit trees and garden crops, and is equally as effective on potatoes. The formula of Insecto is such that when used according to directions, a spray will be obtained equivalent to the standard 3-3-50 or 4-5-50 Bordeaux mixture, plus the usual quantities of arsenate of lead. Price: 1 lb. 55c, 5 lbs. \$2.50, 10 lbs. \$4.75.

BLACK LEAF 40.—There are many types of insects that cannot be controlled with a poison such as Paris green or arsenate of lead, but must be killed by what is known as "contact" insecticides. The most common insect of this type is the plant louse or aphid. There are many forms of lice attacking different fruits and vegetables and flowers. They are practically all controlled, however, by the use of "contact" insecticides, such as this, which is about 40 per cent Nicotine and will be found very effective in controlling all types of plant lice. It is very powerful and one gallon will make from eight hundred to one thousand gallons of spray. Recommended for outdoor uses and for house plants indoors. Price: 1 oz. can, 25c. $\frac{1}{4}$ lb. 75c.

PRUNING COMPOUND.—Sherwin-Williams Pruning Compound is one of the oldest mixtures of this type on the market. It is well known to many fruit growers. It is furnished in semi-paste form and thoroughly protects the wounds made in pruning, preventing the entrance of all moisture, and due to its antiseptic qualities, it prevents the development of fungus diseases which often take place unless the pruning wood is properly taken care of. Price, per quart, 60c.



Planet Jr. TOOLS AND IMPLEMENTS

Two million workers, the world over, testify to the durability, economy, labor and time-saving advantages of all Planet Jr. tools. Wherever you are, whatever you grow, Planet Jrs. are scientific aids to bigger profits. Every tool guaranteed by the manufacturers. We have sold these machines for over forty years.

PLANET JR. NO. 4 COMBINED SEEDER AND CULTIVATOR.—This tool combines in a single implement, a first-class hill-dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator, and a plow. It holds two quarts and sows in continuous rows, or drops in hills 4, 6, 8, 12 or 24 inches apart. The index is accurate, simple and easily set. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe. Price \$19.50. No. 4-D (As a Seeder only) \$15.50.

PLANET JR. NO. 4 SEEDER AND CULTIVATOR

NO. 25 COMBINED SEEDER, DOUBLE AND SINGLE WHEEL HOE.—As a seeder this tool is the same as No. 4 described above but when used as a cultivator it can be set up either as a double or single wheel hoe. Has steel frames and straddles crops until 20 inches high.

Two acres a day can easily be worked, and when it is done, it will be a better job than several men could have done in the same time with hand hoes. The most complete of the interchangeable tools. Price \$23.00.

PLANET JR. NO. 25 HILL AND DRILL SEEDER

PLANET JR. NO. 31 COMBINED DRILL SEEDER AND SINGLE WHEEL HOE.—A combined machine at a low price for the private gardener. The index is easily set, it will sow even a packet of seed and flow of seed is stopped by simply raising the handles. Also can be used as a single wheel hoe. Illustration shows the cultivating attachments. Price \$13.00.

No. 32-D.—The drill part only of the above machine. Attachments can be purchased at any time. Price \$10.50.

No. 33.—The wheel hoe part of the No. 31 Combined Drill and Single Wheel Hoe. A cheap and durable tool for the small garden. Price \$6.50.

PLANET JR. NO. 60 DOUBLE WHEEL ONION HOE.—This tool is a departure from all previous wheel hoes. It is simple, adjustable for all conditions and complete for culture of onion or general hoeing. The tool is compact and strong, the arch carrying the hoes is adjustable, eliminating the necessity of tool frames generally found on other types. Can be widened to work any width of row, and by raising or lowering the hoes will be suitable for any size person. The adjustable arch is not found in the other tools. Price \$7.50.

NO. 60 DOUBLE-WHEEL HOE

PLANET JR. STAR PULVERIZER, LEVELER AND WEEDEER.—This new tool is especially adapted for preparing the seed bed, and will be found of great value in smoothing and fining the soil surface. The rear blade is 13½ inches wide. After the crops are started, it may be used between the rows as a weeder or as a crust breaker. If used frequently it is easy to operate and will keep the plot clean and mellow. Price \$6.50.

PULVERIZER AND WEEDEER

We illustrate the most popular models of these valuable tools and will send catalogue describing many others for garden, farm or orchard, upon request. Send postal for complete Planet Jr. catalogue—today.

PLANET JR. NO. 12 DOUBLE WHEEL HOE.—A double and single wheel hoe in one. Has steel frames, 14-inch steel wheel with heavy steel spokes and straddles crops until 20 inches high. Then can be worked between rows with one or two wheels. Does the work of six men with ordinary hand hoes. The attachments will all be found useful from the beginning to the end of the season. Price \$12.50.

PLANET JR. NO. 12 DOUBLE-WHEEL HOE

NO. 13 Double Wheel Hoe, with one pair of six inch hoes only, price \$9.00.

PLANET JR. NO. 16 SINGLE WHEEL HOE.—(Price \$10.50.)

These single wheel hoes are the highest type of their class. They have a great variety of attachments which adapt them to a large variety of work, and there is scarcely any garden cultivation they will not do. Nos. 16 and 17 have the

same steel wheels, frames and handles, but the attachments sold with each vary. The handles are adjustable in height. The frame is steel, convenient and strong with a simple device by which to exchange the tools without removing the nuts. All attachments are of a special pattern, carefully

NO. 16 SINGLE-WHEEL HOE

NO. 17 SINGLE-WHEEL HOE

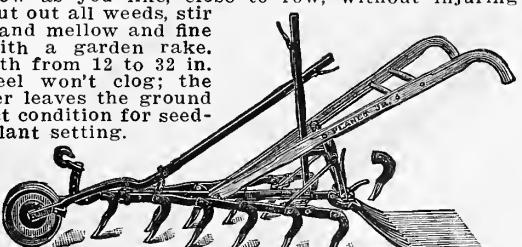
PLANET JR. NO. 17 SINGLE WHEEL HOE. (Price \$8.75.)

PLANET JR. NO. 8 COMBINED HORSE HOE AND CULTIVATOR.—No other cultivating machine is so widely known, for it is in use throughout the civilized world. So strongly built as to withstand incredible strain, yet light and easy to handle. Opens and closes furrows, hoes right up to the plants without danger of injury. Cultivates any depth desired, and adjusts for any width. The teeth, made of beveled steel, specially hardened, retain their cutting shape and outwear anything made. Price \$20.00.

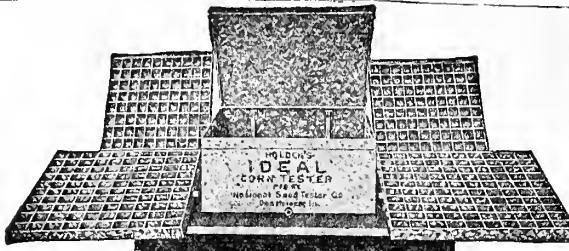


PLANET JR. NO. 8 HORSE HOE

PLANET JR. NO. 90 TWELVE TOOTH HARROW AND PULVERIZER. Price \$20.00. No. 90-B (less pulverizer) \$16.75. The chisel-shaped teeth on this tool go as deep or shallow as you like, close to row, without injuring plants, cut out all weeds, stir the soil and mellow and fine it as with a garden rake. Any width from 12 to 32 in. The wheel won't clog; the pulverizer leaves the ground in perfect condition for seeding or plant setting.



PLANET JR. TWELVE-TOOTH HARROW



HOLDEN'S IDEAL CORN TESTER.—NO. 1.—Made of galvanized iron as per pattern shown in the illustration. It is for testing ears of seed corn before shelling for seed. Capacity of this size 400 ears (one to each compartment) and each compartment is removable at will. It is quite simple in operation and full directions for use will be sent with each tester. By express or freight, not prepaid, \$12.00.

HOLDEN'S IDEAL CORN TESTER.—NO. 2.—A cabinet tester with capacity for 400 tests at one time. By express or freight, each \$18.00.

No. 4.—A single box tester of galvanized iron; capacity 200 tests. By express or freight, each \$6.00.

SEGMENT HAND CORN PLANTER.—A hand corn planter which can be operated with one hand, and an immense amount of ground can be planted in one day with this small planter. Drops as fast as you can walk, and you make it drop where you want it. Open drop by simply bending the planter forward thus pressing the spring which controls the hopper opening and permits the corn to fall through. You can also plant beans or peas with it and it drops pumpkin seed by a simple operation without interfering with the corn planting. It is a popular and successful tool and for small fields or re-planting is especially desirable. Price, each, by express, \$2.00. Mailing weight 4 lbs.

CONCAVED AND CURVED SEED POTATO KNIFE.—Thin and right shape to cut one, two or three eye pieces fast and not crack tuber nor injure germ. Far superior to the ordinary straight blade knives for this purpose. Each, by parcel post, 30 cents.

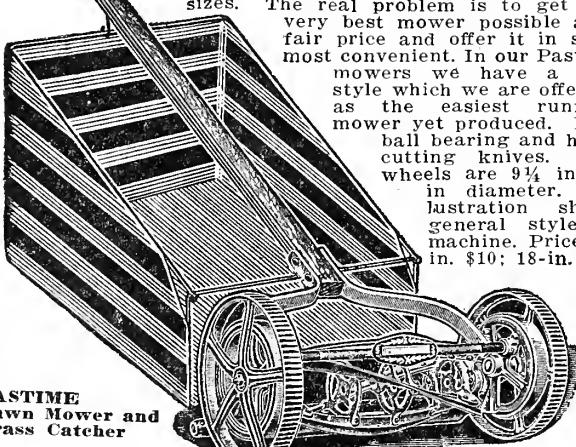


CONCAVED AND CURVED POTATO KNIFE.

LANG'S HAND WEEDER.—Is in our opinion the best; its special feature a band which passes over the fingers, which, when the tool is not in use, gives full use of the hand for pulling weeds and thinning out plants without laying down the tool. Price 25c each, postpaid. By express, per dozen \$2.50.



PASTIME LAWN MOWER.—After a number of years' experience in the lawn mower trade, we have adopted the policy of confining our line to one style and two sizes. The real problem is to get the very best mower possible at a fair price and offer it in sizes most convenient. In our Pastime mowers we have a new style which we are offering as the easiest running mower yet produced. It is ball bearing and has 4 cutting knives. The wheels are 9 1/4 inches in diameter. Illustration shows general style of machine. Price, 16 in. \$10; 18-in. \$11.



PASTIME
Lawn Mower and
Grass Catcher

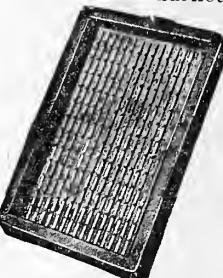


STAR CORN SHELLER.—A fine shell for hand use. Has attachment for shelling tips and butts separately, making it desirable in saving seed corn. We also sell an extra attachment for shelling pop corn. Can be fastened on a box and has reversible chute which throws cobs out at the rear away from the shelled corn. Strong, well made, and will last a lifetime. At our very low price, we consider it the best hand sheller on the market. Each, by express \$1.75; dozen, \$20.00. wt. 12 lbs.

PLANTER PATENT SEED CORN GRADE.

GRADER.—Single Sieve.—A sieve grader 12x18 in. in size with screen of heavy galvanized iron and mesh especially suited to grading seed corn before planting. A cheap, quick and effective method of eliminating tip and butt grains and preparing seed for edge dropping. Each by express, 85c. Mailing weight 3 lbs.

Double Sieve.—Like above, with two sieves attached. Each, by express, \$1.25. Mailing weight 5 lbs.



SEED CORN GRADER

IMPROVED LITTLE GIANT SEED SOWER.—Farmers should have a small hand seed sower for emergency use. This is an improved style, strong, well made and durable. It is very easy to understand and easy to operate. Directions with each machine. By express \$1.75. Mailing weight 4 lbs.

EUREKA POTATO PLANTER.—This is the best hand potato planter that we know of as it does the work perfectly. It also plants beans and

corn equal to any planter. By exp. \$1.50. Mailing wt. 4 lbs.

DIBBER.—Steel pointed for transplanting vegetable plants. Ea., by parcel post, 42c; by exp., 35c.

EUREKA SEED DRILL.—A small hand drill for vegetable seeds in beds. Gardeners will like it for sowing seeds in hotbeds. By exp. \$1.25. Wt. 3 lbs.

EXCELSIOR WEEDING HOOK.—Can be used to advantage among small and tender plants. By parcel post each 20c, doz. \$2; by exp. 15c, doz. \$1.50.

BLUE GRASS STRIPERS.—For gathering seeds. Ea., by exp. \$2.50. Mailing wt. 4 lbs.

GARDEN TROWELS.—By parcel post 5-in. 15c; 6-in. 20c. By exp. 5-in. 10c, 6-in. 15c.

FLORIST TROWELS.—Extra heavy and durable. Best made. By parcel post. each 50c; by exp. each 40c.

DANDELION DIGGER.—Straight, chisel-like bladed tool with notched cutting knife. Each 20c, dozen \$2.00.

LITTLE GIANT MOLE TRAP.—Not so large as the Reddick but principle is similar. Strong, durable and will do the work. Is easily set. Has a strong spring with great force. Each, by express, \$1.00. Weight 2 lbs.

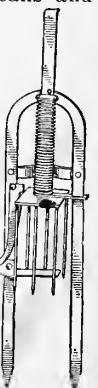
REDDICK MOLE TRAP.—If you are bothered with moles you should purchase one of these traps. It is undoubtedly the best trap made and no mole can pass under it and live. Ea., by exp. \$1.00. Wt. 2 lbs.

DUNHAM LAWN ROLLER.

Easy to handle as a lawn mower. Firms the sod and keeps lawn in fine condition. Will give a perfect lawn if used often; mowing is a pleasure.

No. HW6.—A steel drum 24 in. in diameter, 24 in. long. Hollow; can be filled with water or sand to add weight. Ball bearing. Our net price \$18.50.

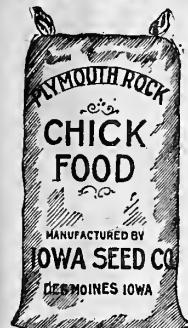
GRASS CATCHERS.—Most successful device for the purpose. Attached to handle only. Does not interfere with action of mower. No. 1, for 12 to 16-inch ordinary mowers, each \$1.00. No. 20, for large mowers, size 16 to 20-inch, each \$1.25. Mailing weight 2 lbs. each.



LITTLE GIANT
MOLE
TRAP



POULTRY SUPPLIES



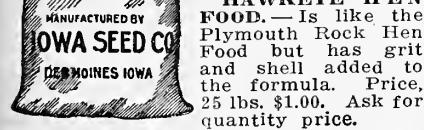
chick food on the market. Per 25-lb. bag \$1.25. See red ink price list.

PLYMOUTH ROCK HEN FOOD.—In the preparation of this food we have had in mind the production of the best food that could be made for laying hens and the keeping of all fowls healthy. Price, 25 lbs. \$2.15.

PLYMOUTH ROCK EGG MASH.—A mash food containing much the same ingredients as Plymouth Rock Hen Food. 25 lbs. \$1.25, 100 lbs. \$4.00.



Ask for price.



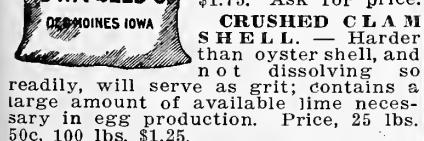
Ask for quantity price.

ALFALFA CLOVER MEAL.—An excellent preparation of alfalfa containing a large amount of digestible protein, especially adapted to be fed with a mash food. Valuable as a winter food. Price, 25 lbs. 85c. See red ink list.

GROUND MEAT SCRAPS.—Fresh beef thoroughly cooked and dried; excellent food for young chicks or laying hens. 10 lbs. 75c, 25 lbs. \$1.75.



—Ground fine for feeding small chickens; also used as a lawn fertilizer. Price, 10 lbs. 75c, 25 lbs. \$1.75. Ask for price.



—Harder than oyster shell, and not dissolving so readily, will serve as grit; contains a large amount of available lime necessary in egg production. Price, 25 lbs. 50c, 100 lbs. \$1.25.

CRUSHED OYSTER SHELL.—A most important article for the poultry yard and should be supplied liberally. Superior quality. Hens will keep healthier, lay better, and eggs will be more fertile if supplied with it. 10 lbs. 25c, 25 lbs. 50c, 100 lbs. \$1.75. Ask for prices.

MICA CRYSTAL GRIT.—Well known grit from the East. Harder, sharper and superior in every way to ordinary kinds. It goes further. Both fine and coarse sizes for fowls and chicks. Per 25 lbs. 35c; 100 lbs. \$1.00. Ask for price.

PLYMOUTH ROCK CHICK FOOD.—This food has been prepared with the idea of supplying a perfectly balanced ration for young chicks. It has been demonstrated that young chicks do much better on our especially prepared feed than on any moist or soft food that can be obtained. The food is composed of various kinds of grains, bone and other nutritive foods, making it the most complete and cleanest chick food on the market. Per 25-lb. bag \$1.25. See red ink price list.

PEARL GRIT.—No better grit can be found for poultry. Sharp and wears sharp. Per 25 lbs. 35c, 100 lbs. \$1.25. See red ink price list.

PEARL CHICK GRIT.—A small grit which is a necessity when raising young chickens. Per 25 lbs. 35c, 100 lbs. \$1.25. See red ink price list.

CHARCOAL.—Granulated to right size. The large poultry size is also suitable for hogs. Two sizes, 5 lbs. 30c, 10 lbs. 50c, 25 lbs. 75c, 50 lb. bag \$2.00, 5 bags at \$1.80 per bag.

CLIMAX BASKETS.—Are desirable for shipping eggs for setting; will hold two settings of Leghorns, etc., or one of Asiatic. Price per 10, 50c; 50 for \$2.00, 100 for \$3.75. Weight 1 lb. each.

SHIPSsafe EGG CASES.—Like picture below but shipped in flat, saving freight or express charges. We recommend them. Price, 15-egg size \$2.10 per doz., 30-egg \$3.00 per doz., 50-egg \$4.50 per doz. Mailing weight, 15-egg size, 1 lb.; 30-egg size, 2 lbs.; 50-egg 3 lbs. each. 100-egg, per doz. \$7.00.



LIVE CHICK BOX.—Made from corrugated paper with ventilating holes in top and sides; for shipping small, live chicks. 25-chick size \$2.00 per doz., 50-chick size \$2.25 per doz., 100-chick size \$4.50 per doz. Mailing weight, 25 size, 2 lbs.; 50 size, 4 lbs.; 100 size, 6 lbs.

WIRE HEN'S NESTS.—These nests are strongly made from heavy wire and will last a lifetime. There is no room on them for lice to find a lodging place, and they are easily kept clean. Each 15c, ½ doz. 80c. doz. \$1.50, not prepaid.

PRATT'S LOUSE POWDER.—A remedy for poultry vermin, moths or lice on horses and cattle, fleas on dogs or lice or insects on house plants. By express, 1 lb. pkg. 25c, 3 lb. pkg. 50c.

CONKEY'S LICE POWDER.—One of the most perfect lice killers. Also good for fleas on dogs and other animals. By express, 1 lb. pkg. 30c, 3 lb. pkg. 60c, 12 lb. pail \$1.40.

LEE'S LOUSE POWDER.—Use on fowls, in nests, and among the litter. Has sprinkler top to the can. By express, 20 oz. pkg. 25c, 3 lb. pkg. 50c.

ANTISEPTIC NEST EGGS.—Keeps vermin from the nests and causes them to leave fowls. By express, per doz. 60c.

GLASS NEST EGGS.—By mail in regular Shipsafe egg case, which may be used to ship eggs for hatching, 12 for 95c; 50 for \$1.75, postpaid.

PRATT'S POULTRY REGULATOR AND EGG PRODUCER.—Will keep hens in good health and cure cholera and other diseases of chickens and turkeys. By express, 26 oz. pkg. 25c, 4 lb. pkg. 50c, 9 lb. pkg. \$1.00.

HEN FRIEND DRINKING FOUNTAIN.—Galvanized iron. Is easily handled. Exp. 2-qt. size each 40c; 5-qt. each 65c; 10-qt. each \$1.00. Mailing weights: 2-qt. 1 lb.; 5-qt. 2 lbs.; 10-qt. 3 lbs.



Prices are subject to important market changes. Transportation to be paid by purchaser except where marked postpaid. In sending postage for items which you want to come by parcel post, be sure to add 1 pound to stated weight of package goods.

CONKEY'S ROUP CURE.—An excellent remedy that has been thoroughly tried and has given excellent satisfaction. Trial size 30c, regular size 60c, large size \$1.20, postpaid.

CONKEY'S CHOLERA CURE.—We consider this the most dependable cholera cure known. Used for cholera, indigestion, bowel trouble, diarrhoea and kindred diseases. Trial size 30c, regular size 60c, postpaid.

CONKEY'S POULTRY TONIC.—A splendid item for laying hens, and beneficial to all poultry. By exp., 24 oz. pkg. 30c, 3 ¼ lb. pkg. 60c, 12 lb. pail, \$1.40.

LEE'S EGG MAKER.—Sold under a manufacturer's guarantee to make hens lay. Foundation is granulated blood, deodorized. By exp., 2 ½ lb. pkg. 35c, 5 lbs. 75c. Add postage if by parcel post.

LEE'S GERMOZONE.—A liquid to be given in the drinking water of fowls. It will cure cholera, roup and nearly all poultry diseases. By express 75c. Mailing weight 2 lbs.

GERMOZONE TABLETS.—Lee's Germozone in the form of small tablets to be dissolved in drinking water of the fowls. Per box of 60 tablets, making 1 tablet to a quart of water, postpaid, 75c.

LEE'S LICE KILLER.—A liquid that will eradicate lice, mites and chiggers, by applying to roost and nest boxes. It is now considered the standard liquid lice killer. By exp., qt. 50c, ½ gal. 75c, gal. \$1.25. Mailing wt., qt., 3 lbs.; ½ gal., 5 lbs.; gal., 10 lbs.

CONKEY'S LICE LIQUID.—For painting roosts, nest boxes, coops and houses. Kills lice and mites. By exp., qt. 50c, ½ gal. 75c, gal. \$1.25. Wt. same as Lee's.

CONKEY'S FLY KNOCKER.—A liquid that kills all flies and insects it strikes, and drives others away. A great relief to cows and horses. Especially valuable to dairymen. Stock sprayed with Fly Knocker will not be troubled with insects while feeding. By express, qt. 60c, ½ gal. 90c, gal. \$1.50. Mailing weights, qt., 3 lbs.; ½ gal., 5 lbs.

CONKEY'S NOXICIDE.—A liquid disinfectant and deodorizer for use in spraying poultry houses. Destroys the germs and can be used in diluted form as a dip. By express, pint 40c; qt. 70c; 2-qt. \$1.00; gallon \$1.75.

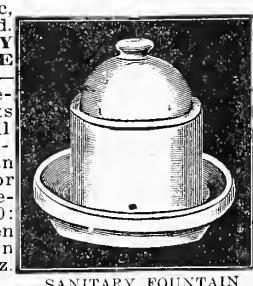
PHILADELPHIA POULTRY MARKER.—A convenient little spring punch for marking chickens. Marks small hole in web of the foot. 25c each, postpaid.

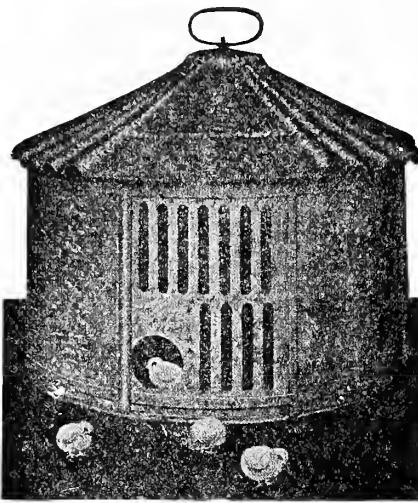
PILLING LANDSDOWNE POULTRY MARKER.—A handy poultry marker.

Look at the illustration and see how easy it is to use. Large or small size sent postpaid for 25c.

KEY RING LEG BANDS.—Made of celluloid in six sizes and ten colors. Spread easily to put on leg of fowl. Have no sharp edges and are easy on the fowl's legs. Sizes: Asiatic, American, Mediterranean, Bantam, Pigeon and Baby Chick. Specify number of each color wanted. Prices, 3 largest sizes, per doz. 15c, 100 80c, postpaid; 3 small sizes, doz. 10c, 100 60c, postpaid.

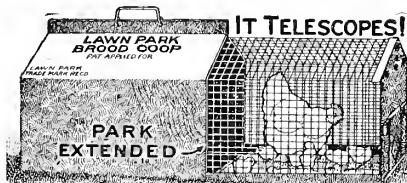
SANITARY DETACHABLE FOUNTAIN.—Made of stone ware; the chicks can drink all around. Is easily cleaned. Can ship by freight or express only. One-quart 35c, doz. \$3.00; 2-quart 45c, dozen \$4.00; gal. 60c, dozen \$5.00; 2-gal. 75c, doz. \$7.50.





LUTHE BROOD COOP.—Round metal coop, made of galvanized iron, with sliding door which can be fastened open at desired size. Adjustable top for ventilation. Rat, mink, weasel, mite and rain proof. Owing to present high values of galvanized iron, price is higher than in former seasons, but the coop is so handy and such perfect protection for young chicks that it is recommended a bargain at present values. Size 22 in. diameter, 29 in. high. Each \$3.00, dozen \$33.00.

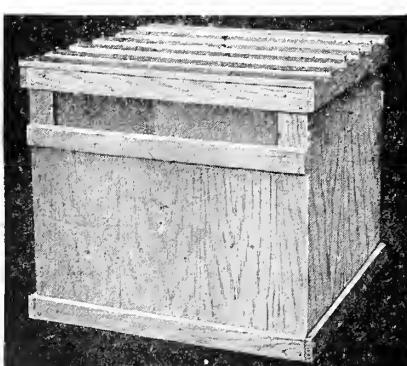
BURLINGTON BROOD COOP.—Similar to Luthe coop in shape and size. Somewhat cheaper in price and good value. Price each \$2.75, dozen \$30.00.



LAWN PARK BROOD COOP.—An all metal coop as shown in illustration. Size of coop 18 in. wide, 24 in. long, 19½ in. high, while the wire park is practically the same size. The pen telescopes into the coop portion if moved and has a handle by which it is moved without disturbing the fowls. Each \$4.00, dozen \$45.00.

IOWA SHIPPING COOPS.—All wood. Sides and end pieces nailed together with cleats so that coops are readily made in using form. As shown by cut coops are ventilated front and back and top is covered with slats, giving thorough ventilation. Cleats around upper and lower end make it easy to handle.

Dimensions Weight $\frac{1}{4}$ doz. 1 doz.
No. 1—18x12x18 in. 6 lbs. \$1.50 \$ 6.00
No. 3—18x20x18 in. 10 lbs. 2.00 7.20
No. 5—30x20x18 in. 14 lbs. 3.00 10.00



BANNER POULTRY FENCE.—Made of heavy No. 17 galvanized wire with small square mesh at bottom, ranging larger at top. Strong and durable. Small chicks cannot get through and it will turn dogs and small animals. Put up in rolls of ten rods length.

	Cut Rolls	Full	Five
Width	Per 10 Ft.	Roll	Rolls
18-inch	\$.16	\$3.75	\$18.00
24-inch	.20	4.65	22.00
36-inch	.25	6.25	28.00
48-inch	.30	7.50	32.00
60-inch	.35	8.50	40.00
72-inch	.40	9.50	45.00

GALVANIZED STAPLES.—For fastening wire poultry netting, 10c per lb.

POULTRY NETTING

We can supply both the hexagon mesh of the pattern shown in the illustration and also the square mesh at same price.



The best make; thoroughly galvanized before weaving, to prevent rusting, and properly twisted. Prices are subject to important market changes: Made of No. 19 wire and 2-inch mesh; put up in rolls 150 ft. in length.

Width	Width		
Inches	Per Roll	Inches	Per Roll
12	\$ 2.00	36	\$ 5.00
18	3.00	48	7.00
24	4.00	60	8.00
30	4.50	72	10.00

One-inch mesh, No. 20 wire, for young chicks and Belgian hares.
12 \$ 4.00 30 \$ 9.00
18 6.00 36 10.00
24 7.50

Other widths if desired. Will allow 5 per cent discount on lots of 5 rolls or more. Cut rolls, any width, 2-inch mesh, 2c per sq. ft.; 1-inch mesh, any width, 4c per sq. ft.



For Prices
See Red
Ink List
enclosed

CALF MEAL.—Takes the place of milk as a feed for young calves. One pound makes a gallon of feed.

PIG MEAL AND LAMB FOOD.—For little pigs or lambs.

EGG MASH.—A feeding mash for laying hens. Superior to others.

MILK MASH.—For growing chicks and finishing fowls for market. Produces a wonderful growth in young chicks and is recommended.

CONKEY'S BUTTERMILK STARTING FOOD.—A prepared ground feed for baby chicks and young growing fowls. Per 25 lbs. \$2.00, 100 lbs. \$7.50.



BUFF PLYMOUTH ROCK

EGGS FOR HATCHING

If 15 chicken eggs are wanted for a setting, add 40c to price quoted. Order now and state time of delivery wanted.

We are prepared this season to supply eggs for hatching from choice thoroughbred stock of leading varieties. They are superior egg-laying strains.

BARRED PLYMOUTH ROCKS.—The farmer's favorite. From large, well-marked stock. Setting of 13 eggs \$2.00.

WHITE PLYMOUTH ROCKS.—Great egg producers and very early to mature. Our stock is pure white. Price per setting of 13 eggs \$2.00.

BUFF PLYMOUTH ROCKS.—Becoming very popular as a general purpose fowl. Per setting of 13 eggs \$2.25.

WHITE WYANDOTTES.—Rapidly becoming favorites. They are great layers, mature early and are pure white. Price per setting of 13 eggs \$2.25.

SILVER-LACED WYANDOTTES.—Most popular of Wyandotte class. Per setting of 13 eggs \$2.25.

BLACK LANGSHANS.—Very satisfactory for general purposes. Per setting of 13 eggs \$2.25.

BROWN LEGHORNS.—The greatest of all layers. Our stock is from one of the best laying strains in the country. Price per setting of 13 eggs \$2.25.

SINGLE COMB WHITE LEGHORNS.—Beautiful and profitable variety. Per setting of 13 eggs \$2.00.

LIGHT BRAHMAS.—High scoring stock. Per setting of 13 eggs \$2.25.

RHODE ISLAND REDS.—Single or Rose Comb as preferred. Per setting of 13 eggs \$2.25.

BUFF ORPINGTONS.—Large, handsome fowls. Per setting of 13 eggs \$2.25.

WHITE ORPINGTONS.—Most popular breed among fanciers. Our stock is a fancy strain. Setting of 13 eggs \$2.50.

BUFF COCHIN BANTAMS.—Similar in shape and color to the standard Buff Cochinchin fowl, except in size. Price per setting of 15 eggs \$2.50.

SILVER SEBRIGHT BANTAMS.—Beautiful little fowls of black and white markings. Best strain of high scoring stock. Setting of 15 eggs, \$2.50.

BRONZE TURKEYS.—Usually scarce, but we hope to have a good supply this season. Setting of nine eggs \$5.00.

WHITE HOLLAND TURKEYS.—Preferred by some over the Bronze variety. Per setting of nine eggs \$5.00.

MAMMOTH WHITE PEKIN DUCKS.—Per setting of 12 eggs \$2.50.

INDIAN RUNNER DUCK.—Considered the best layers of any breed of ducks. Quick growing. Setting of 12 eggs \$2.50.

WHITE SWISS PIGEONS.—Beautiful birds of clear white. Large and heavy and produce first grade squabs. Just the kind for farm raising. Fancy, mature birds, per pair, \$5.00.

EGGS FOR INCUBATORS.—Write us for prices, stating the number of eggs you will want and breed.

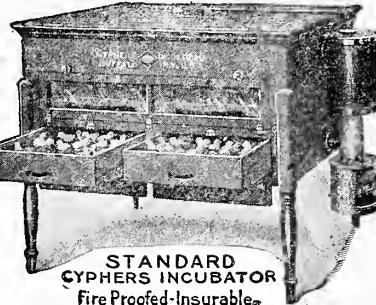
BREEDING STOCK.—A few choice cockerels and pullets at reasonable prices. We send out only choice stock which will please our customers. Write for a price on what you want.

SUCCESSFUL GRAIN SPROUTER

For sprouting oats or other grain for poultry. Made entirely of galvanized steel in sections as shown in illustration. Each section holds two trays for grain. Sections are interchangeable and sprouter may be enlarged by additional sections as needed. Five sizes.
 No. 1—Base and 1 Section, wt. 50 lbs.—2 trays, Price holds 8-10 qts. dry grain (30 to 60 hens)..... \$ 9.00
 No. 2—Base and 2 Sections, wt. 70 lbs.—4 trays, holds 16-20 qts. dry grain (75 to 100 hens)..... 11.00
 No. 3—Base and 3 Sections, wt. 85 lbs.—6 trays, holds 24-30 qts. dry grain (130 to 200 hens)..... 13.50
 No. 4—Base and 4 Sections, wt. 100 lbs.—8 trays, holds 32-36 qts. dry grain (250 to 300 hens)..... 16.50
 No. 5—Base and 5 Sections, wt. 115 lbs.—10 trays, holds 40-50 qts. dry grain (400 to 600 hens)..... 19.25
 Each additional Section and 2 galvanized all-steel trays, wt. 20 lbs..... 3.50



SUCCESSFUL GRAIN SPROUTER

STANDARD CYPHERS INCUBATOR
Fire Proofed-Insurable.

SIMPLICITY ROUND INCUBATORS

All metal, compact and convenient. Body painted green with steel gray top, nicely finished. Solid and well made and will last a lifetime. Body is galvanized steel, heating system 14 oz. copper, pressed steel lamp. Has a glass disc in top through which eggs can be seen without opening the machine. Uses hot water heat with good ventilation, which provides for plenty of moisture and the circular radiator provides even distribution of heat, while the shape prevents cold corners.

50 Egg Size, complete..... \$15.00

100 Egg Size, complete..... 23.00

CYPHERS STANDARD INCUBATOR

After experimenting with a number of incubators, we have chosen the Cypher's Standard for our offering. It always gives the best of satisfaction, is the easiest to operate, requires the least amount of oil, capacity considered, and will hatch a larger per cent than any other machine we have ever tried, including more than twenty leading machines. Nos. 0 and 1 do not have nursery shown in cut.

No. 0, 70 egg..... \$25.00

No. 1, 134 egg..... 32.75

No. 2, 244 egg..... 47.00

ASK for prices on larger sizes.



INTERNATIONAL HOVER

INCUBATOR THERMOMETERS.—Tested and accurate. No. 751.—Straight; upright; reads upward. Ea. 55c, postpaid.

No. 756.—Reads almost horizontally, but is liked by many as it lies in the machine without danger of breakage from agitation. Each 65c, postpaid.

INTERNATIONAL PORTABLE HOVER.—You can set the portable hover any place—colony house, laying house, barn or dwelling. Self regulating. Moved at will without disturbing lamp. Make a pen of boards or wire netting around it and you have a perfect brooder. Capacity, 75 to 100 newly hatched chicks. Complete with thermometer, each \$14.00.

Simplicity Incubators HAVE NO COLD CORNERS



TOP FILL FOUNTAIN

MOE'S TOP FILL FOUNTAIN.—Won't slop over. Dead air space keeps water cool in summer, warm in winter. Simple in construction. Remove cover and fill from top. Water ceases to flow when cover is removed. By express, 1-gal. \$1.90; 2-gal. \$2.75; 4-gal. \$3.50. Mailing weights: 1-gal. 3 lbs.; 2-gal. 5 lbs.; 4-gal. 10 lbs.

MOE'S GRIT AND SHELL BOX.—Has three compartments for grit, shell and charcoal; galvanized iron. Can be used as feed hopper for small chicks; $\frac{1}{2}$ pk. By exp. \$1.10. Wt. 4 lbs.

BONE CUTTERS AND MILLS

HUMPHREY'S GREEN BONE AND VEGETABLE CUTTER.—One of the leading bone cutters. Be sure and investigate this before you purchase. Manufacturer's guarantee with each cutter sold. No. 1 cutter, \$20.00; No. 2 $\frac{1}{2}$, semi-power, \$25.00;

No. 2, all-power cutters, each \$25.00.

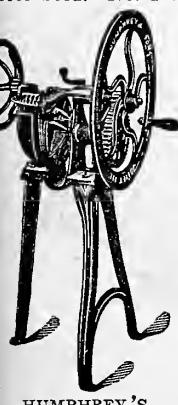
HUMPHREY'S RAPID CLOVER CUTTER.—For cutting clover, alfalfa, etc., which are essential foods for poultry. Strong and durable, with five cutting knives and double-edge stationary knife which is reversible. Each \$18.00.

MANN BONE CUTTERS.—A standard machine which we are able to offer at a very low price owing to contracts made before metal prices advanced. Automatic feed and when bones are put in they are kept constantly against cutting knives. No. 1 cutter with stand, each \$24.00; No. 2, without stand (for bench or table), each \$17.50.

CROWN BONE CUTTERS.—No. 1.—Weighs 50 lbs.; is to be bolted to bench or table for operation. Each \$12.50.

No. 2.—Same as above, but has a tripod metal stand upon which cutter is fastened. Wt. 80 lbs. Each \$17.50.

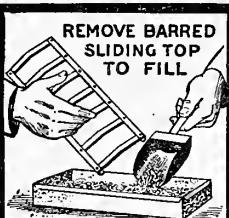
MODEL GRINDING MILL.—To grind shell, grit, bone, and grains. Easily adjusted to grind coarse or fine as desired. No. 1, each \$4.50. No. 2, each \$6.00.



HUMPHREY'S BONE CUTTER



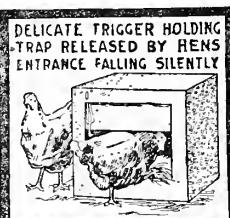
GRIT AND SHELL BOX



SANITARY FEED TROUGH



DRY FEED HOPPER



TRAP NESTS



STAR FOUNTAIN

MOE'S DRY FOOD HOPPER.—As shown by illustration, this hopper is devised to permit fowls access to the feed without scattering or wasting. Two sizes, No. 35 \$1.25; No. 36, \$1.75. Mailing weights: No. 35, 3 lbs.; No. 36, 5 lbs.

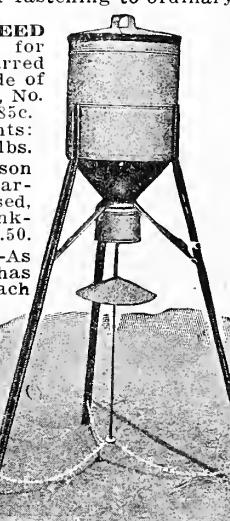
MOE'S TRAP NEST.—Made of galvanized iron in two sizes. Principle shown in cut. Price. No. 33, for Mediterranean breeds, size 12x12x12, each \$1.40; No. 34, for larger breeds, size 12x12x14, each \$1.75. Mailing wts.: No. 33, 5 lbs.; No. 34, 6 lbs. Fronts only for fastening to ordinary nest boxes, each 60c.

MOE'S SANITARY FEED TROUGH.—Can be used for feed, mash or water. Barred top prevents waste. Made of galvanized iron. By exp., No. 21, 12 in. long, ea. 60c; No. 22, 18 in. 85c. No. 23, 24 in. \$1.10. Mailing weights: No. 21, 1 lb.; No. 22, 2 lbs.; No. 23, 4 lbs.

STAR FOUNTAIN.—Made for Mason jar, like Northwestern, but it is star-shaped. Not so much water is exposed, and fowls cannot pollute it while drinking. Ea. 20c, postpaid. By exp., doz. \$1.50.

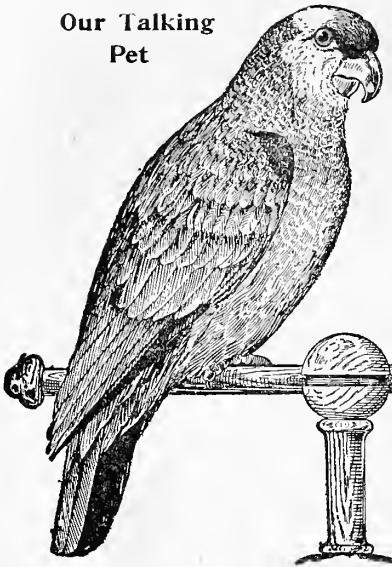
O. K. AUTOMATIC FEEDERS.—As shown in our illustration, No. 1, has capacity of $\frac{1}{2}$ bu., with stand, each \$3.75; without stand (will hang from hook), each \$1.75. No. 2, capacity 1 bu., with stand, each \$4.50; without stand, each \$2.50.

NORTHWESTERN AUTOMATIC FEEDER AND FOUNTAIN.—Metal pan in center of which can be fastened a Mason jar. Fill the jar with feed or water as desired, screw on pan and turn jar upside down, and the contents flow automatically into the pan as needed. We sell pans only, as everyone has Mason jars. Pans 5-in. diam. ea. 20c, postpaid; 6-in., 25c, postpaid.



O. K. AUTOMATIC FEEDER

Our Talking Pet



PARROTS

GUARANTEED TALKERS

A bird that talks has a wonderful charm. Below we offer young, tame, hand raised parrots guaranteed to learn to talk within six months. Living arrival guaranteed to any express office in U. S. located on a railroad. Birds ready to ship in early summer. Order early.

CUBAN PARROTS.—Medium size, and make nice talkers. Usually in stock from June to September. \$6.00 each.

ROYAL AZTEC DOUBLE YELLOW HEADS.—Our very finest talking strain, unsurpassed as imitators of the human voice. They are superior to all other American parrots and make most fluent talkers. Price \$15.00 during summer but usually higher after Aug. 15.

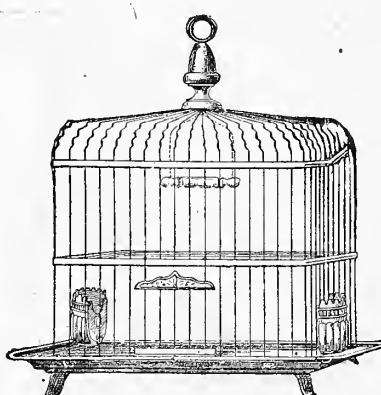
MEXICAN DOUBLE YELLOW HEADS.—Good birds guaranteed as above and second only to the Royal Aztecs. Price \$12.50 during the summer.

MEXICAN RED HEAD PARROTS.—Medium size, make nice talkers and great pets. Young birds ready in June. Price \$6.00 each during June and July.

PANAMA PARROTS.—Large, green parrots, very fluent talkers. Species. Usually in stock entire year. Price, \$15.00 each.

WE WILL BUY YOUR PETS

We handle all kinds of pets. If you have any Canaries, Parrots, Macaws, Cockatoos, Guinea Pigs, Monkeys, or any household pets which you would like to dispose of, write us giving full particulars first letter.



JAPANNED OR PAINTED CAGE.—Best cage on the market for the money. It is neat, durable and convenient.

No.	Size	Wt.	Price
165H	6 1/2 x 9 1/2 in.	4 lbs.	\$1.75
167H	7 1/2 x 11 in.	5 lbs.	2.00
168H	8 1/4 x 12 1/4 in.	5 lbs.	2.25

BIRDS

"Little Dewdrops of Celestial Melody."

The companionship of a bird has brightened the life of many a tired, over-worked mother on whom the daily cares and burdens rested heavily. The music of a good singer makes the whole house more cheerful and every member of the family enjoys the pure, clear notes of a happy little song bird. The superior quality of our selected canaries will please the most critical. We handle thousands of birds annually and have the **largest mail order business in America**. Ask for our illustrated price list. We ship to all parts of the United States and **guarantee live arrival** to any express office which is a railroad station. Express charges are to be paid by purchaser on all goods on this page except where stated. Descriptive price list free.

HARTZ MOUNTAIN CANARIES.—These birds are American raised from Hartz Mountain birds, and are famous for their clear, pure, beautiful song, which is a restful melody. Because their voice is just as nature gave it—unchanged by any training—we call them Nature's Solo Singer, to distinguish them from the trained bird below. These are the finest singers ever offered at the price. Males, guaranteed good singers, each \$7.50.



HARTZ MOUNTAIN CANARY

CHORUS LEADERS.—These birds are trained singers. Their tones are sweet, round and full, consisting of delightful bell notes, low water bubble, charming flute notes and long, silvery trills. Their most restful music continually surprises by its many changes. They are scarce and difficult to obtain. Male birds, guaranteed good singers. Each \$12.00.

FEMALE CANARIES.—Hartz females \$1.50 and \$2.00 each. Roller females \$3.00 each. Order between September 1st and April 15th.

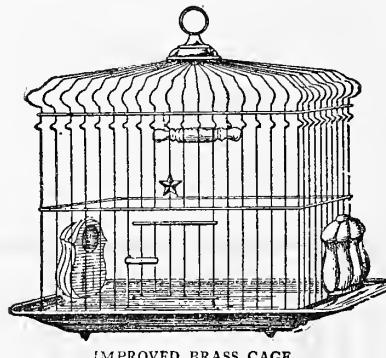
OTHER BIRDS.—We have in stock, in season, English Norwich Canaries, Goldfinches, Linnets, Yorkshire Canaries, Java Sparrows, Dwarf Paroquets, Cockatoos and Cockateel, Scarlet and Green Macaws and many other interesting birds. If you want any of these or other birds not mentioned in this catalogue, please write. Birds not in stock will be obtained when possible. Write for what you want. Bird Price List free.

ROUND PARROT CAGES.—Tin wire, durable, and very satisfactory. 13 inches in diameter, \$3.25; 14-inch \$4.00; 16-inch \$5.00; 18-inch \$7.00.

CANARY BREEDING AND TRAINING.—By Chas. N. Page. Tells the whole story. Explains in detail the necessary care of the canary as a songster. 80 pages. Paper 25c cloth 75c.

FEATHERED PETS.—By Chas. N. Page. Describes and tells how to care for birds that can be successfully kept in captivity. 144 pp. Cloth 75c; paper 25c.

PARROT BOOK.—Describes different kinds, tells how to treat when sick how to train and care for young parrots. Paper 25c; cloth 75c, postpaid.



IMPROVED BRASS CAGE

IMPROVED BRASS CAGES.—(Like cut.)—6x9 \$2.25; 7x10 \$3.50; 8 1/4x11 1/2 \$4.25.

IDEAL BRASS CAGE.—Like cut but has brass screen around lower part. Size 6x9 \$3.50; 7x10 \$4.50.

BREEDING CAGES.—Wood frame. Single compartment: 17 in. long \$1.90; 19 in. \$2.60, 21 in. \$3.25. Double: 19 in. \$2.85; 21 in. \$3.45.

WIRE NESTS.—15¢ each. Postage on one to three nests 4¢ extra.

TOY BELLS.—For birds, 7¢, postpaid.

PARROT BELLS.—Each 12¢, postpaid.

BIRD SEED

Add postage if you want goods by parcels post. Prices subject to market changes.

But few persons are aware how much a bird's health, and consequently its song, depends upon feeding strictly fresh seed properly mixed and of good quality. As you value the life of your bird, feed only our fresh seed.

SUPERIOR MIXED BIRD SEED.—Per lb. 25¢.

GERMAN SUMMER RAPE.—Fed very largely to trained canaries. Price 25¢ per lb.

SICILY CANARY.—Price 30¢ per lb.

MAMMOTH RUSSIAN SUNFLOWER.—Price 15¢ per lb.

MIXED PARROT SEED.—Same price.

PARROT DANTIES.—Per pkg. 25¢.

BIRD HEALTH.—A preparation of our own which will keep birds in good condition at all times. It relieves colds and cures obscure ailments after other remedies fail. Restores the voice and invigorates the system. Price per 2 oz. box 15¢, postpaid. Four boxes for 50¢.

CUTTLE BONE.—10¢ each, postpaid.

PREPARED MOCKING BIRD FOOD.—Best food on the market for all soft-billed birds. Can 35¢, wt. about 2 lbs.



CLIMAX CANARY CAGE

Very popular style. Neatly japanned has screen to prevent scattering of the seed. Diameter 11 inches, total height 17 1/2 inches. Shipping weight 6 lbs. Price, by express, each \$3.50.

GOLDFISH

BEAUTIFUL; EASY TO KEEP; WE TELL YOU HOW.

Did you ever own a globe of Goldfish? You admire them, no doubt, for their pretty form, exquisite coloring and graceful movements, but if you have never kept fish, you cannot realize how your interest grows as you become more familiar with them. They are not hard to keep; just follow our plain printed directions sent free with each Goldfish order and you can hardly fail to succeed. Goldfish are kept quite generally in city and town and there seems no reason why our customers in the country should not share just as fully in the pleasure a nice aquarium affords. Be the first in your locality to get an outfit: you will find all the neighbors interested and their admiration will add to your enjoyment of the fish. We ship Goldfish any time of the year, but buy early in the season while it is still cool weather because this is favorable for the fish. All items in this department are shipped at customer's expense for transportation unless otherwise stated. Ask for free *Aquaria Price List*.

GOLD FISH.—While there are many varieties of gold fish as named and described in this list, we refer only to the plain variety by this name. These are more popular than the fancy sorts, being low priced and generally satisfactory. They are a species of carp, originally inhabiting ponds and sluggish streams in China, and they are better adapted to life in fish globes than any other breed of fish. They are universal favorites, of golden red color. Those bred in this state seem to have a peculiar brilliancy of coloring which is especially noticeable when in the fish globes. Prices, 15c, 25c, 35c, 50c and \$1.00 each, according to size. The 25c size (5 for \$1.00) is the most popular. The largest size is only suitable for ponds or fountains.

SILVER FISH.—This is simply an uncolored gold fish of dark silvery color. Nice for variety. Medium size 10c each; 6 for 50c.

PEARL FISH.—These elegant fish are either of a clear pearly white color or white is variegated with gold markings. Medium size 25c; 6 for \$1.00.

AMERICAN FANTAIL FISH.—Are bred from the imported Japanese fish and are very handsome. Price, according to size, shape and color, 25c, 35c, 50c and 75c each.

ORIOLE FISH.—Are beautifully variegated golden red and clear black. Medium size 30c each.

AQUARIUM CASTLES.—Very pretty castle like cut in upper right corner. No. 12, 3 in. high, ea. 20c; parcel post 1 lb. No. 13, 4 in. high, ea. 30c; parcel post 2 lbs. No. 14, 6 in. high, ea. 45c; parcel post 3 lbs. No. 15, 8 in. high, ea. 75c; parcel post 3 lbs.

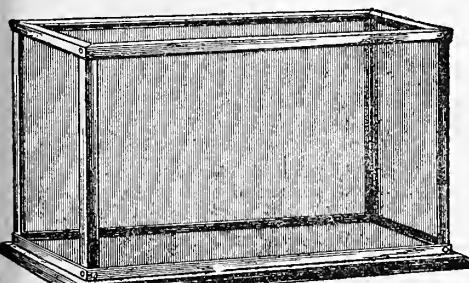
PREPARED FISH FOOD.—Good for all kinds of gold fish. This we import from Europe, where they make the best quality and of the purest materials. Price, 15c per box, postpaid.

GLASS FISH GLOBES.—These are neat, cheap and consequently more popular than the large aquariums. Like cut in upper left corner of page. Measurements are approximate.

1-qt.—5 in....\$.25	4-qt.—8 in...\$.70
2-qt.—6 in....45	8-qt.—10 in...1.15
12-qt.—11 in...1.70	

HOME COLLECTION

Consists of one 4-quart Globe, three pretty Fish, Plant, Shells, and Food. Weight, packed for shipment, about 13 pounds. Price \$1.35.



STANDARD AQUARIUM.—Very strong iron frame, thick slate bottom. Our best line. No. 1, size 18x10x11, holds 5 gal.....\$ 7.00 No. 3, size 22x14x13, holds 12 gal.....10.00 Dimensions are outside measure. Larger sizes quoted on request.

COMET FISH.—Also called "Long-Tailed Beauties," and "Fancy Gold Fish." They are without doubt the most graceful in their movements of all aquaria fish. Medium size 25c each; large 50c each. Extra choice colors and markings 75c to \$1.25.

JAPANESE FANTAIL FISH.—By far the most popular of all fancy fish and the most satisfactory of the imported varieties. The fins and tails are of delicate lace-like appearance. The tail is V-shape and frequently divided. They are beautifully variegated usually with golden red and pearly white or black. Choice specimens 50c each. Fancy 75c each. Extra fancy \$1.00 to \$3.00 each.

JAPANESE FRINGETAIL FISH.—These aristocratic fish are undoubtedly the most beautiful of all aquaria fish, having extremely long, drooping tail and fins. Choice specimens sell at \$10.00 to \$50.00 each. We can furnish select specimens at \$3.00 to \$5.00.

TELESCOPE FISH.—A very curious appearing fish which always attracts attention from its "extreme ugliness." Its eyes are abnormally large and bulging. Price \$1.00 to \$1.50. Black Telescopes, which are quite rare, \$3.00 each.

SHIPPING BUCKETS.—Unless you order fish globe with fish it will be necessary to ship them in a can or bucket. For this purpose we offer 3-quart tin buckets suitable for holding 6 medium sized fishes or less at 25c each, 4-quart at 30c, 6-quart, will hold 12 medium sized fishes, at 40c each.

AQUARIA BOOK.—(By Chas. N. Page.) Illustrates and describes all best kinds of fancy fish. How to breed and care for gold fish, etc.; paper, 64 pages, 15c; cloth bound, 50c, postpaid.

WHITE SAND.—Absolutely clean. Is very beautiful for aquariums. Price per pkg. (about 2 lbs.) 10c.

DIP NETS.—For handling fish without danger of injuring them. Medium size, 35c, postpaid.

AQUARIA CEMENT.—Invincible waterproof cement, to set glass in aquariums. Lb. 35c, postpaid.



THE PARLOR AQUARIUM.

This is such a pretty and unusual design that it is very popular and a great seller. Its entire height is about 10 $\frac{3}{4}$ inches. Bowl is 5 inches deep and 12 inches in diameter. The wide open top allows freest access of air for the fish and gives best opportunity for arranging plants or ornaments, all of which are visible to best advantage. This is a fine ornamental decoration for your home and you will be delighted with it. Globe with nice metal stand \$4.00, or with plants and four fish to stock it, all for \$5.50.

PARLOR COLLECTION

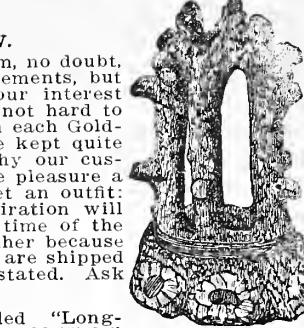
Consists of one 8-quart Globe, five Fancy Fish, Food, Plant, Shells. Shipping wt. about 20 pounds. Price of Collection, \$2.00.

PLANTS FOR AQUARIUMS

CABOMBA, or Aquaria Moss.—This is the prettiest plant in existence for growing in aquariums, and also the most valuable. The foliage is of a beautiful light green, and the leaves spread out like a fan, which gives it the name of Fanwort. Leaves beautifully and regularly cut and resemble a delicate lace fern. It grows all the year round, but it looks a great deal better during the fall and winter months than during the spring. May be broken any length and roots readily. Should be weighted down in the water so the base of stems are in the sand. Bunch of ten stems 25c, postpaid.

SALVINIA.—This is a small floating aquatic plant, nice for fish globes or small aquariums. Leaves are soft green, with delicate, hairy surface. Bunch 15c, doz. \$1.50.

LUDWIGIA.—A pretty plant with smooth green leaves, variegated at certain seasons with yellow and red. It grows nicely in pots, vases and hanging baskets. Each 10c, 6 for 50c



AQUARIA CASTLE



CABOMBA

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Date Shipped	Shipped by	

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Choice Iowa Seeds
TOOLS, SEED POTATOES, ETC.
From the IOWA SEED COMPANY
209-211 Walnut Street Des Moines, Iowa
Warehouse—208-210-212 S. Eighth St. Greenhouses—31st and Crocker Sts.**

Please write your name and address distinctly and in full with each order. Old customers who have moved since last season will please state their former address also. Read "Suggestions to Customers" on first page of Catalog. Extra order sheets and return envelopes on application.

IOWA SEED CO.—Please ship the following goods on the terms and conditions stated on page one of your general catalog.

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WRITE PLAINLY

Post Office.....

County..... State.....

P. O. Box or St..... R. F. D. No.....

Express Town (if different) from P. O.)

Ship by (BY MAIL
 EXPRESS
 OR FREIGHT)

We Prepay the Postage on all seeds, plants and bulbs, except where noted. Field seeds, potatoes and other goods, except as noted, we ship by freight or express, purchaser paying charges.

QUANTITY OR NUMBER	NAME OF SEEDS OR OTHER ARTICLES WANTED Please write your plant order on the green order sheet	PRICE	
		Dollars	Cents

Amount carried forward,

QUANTITY OR NUMBER	NAME OF ARTICLES WANTED	PRICE	
		Dollars	Cents
<i>Amount brought forward.</i>			

All orders for potatoes, plants and other perishable goods are carefully booked on receipt and listed in rotation as soon as weather permits. If shipped early they are at buyer's risk.

Total Amount of order.

Is Your Order Complete? Before mailing this please look over each department of our Catalog and you will doubtless find many items that are just what you want.

Questions Should you desire to ask any questions, kindly write them on a separate sheet of paper enclosed in same letter so as to not delay the filling of this order.

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HOME FLORICULTURE

A GUIDE to the culture of flowers in the house and garden; propagation, planting, insects, cut flower work, private greenhouses, etc. Full of practical suggestions and will help you enjoy your flowers better every day, 174 pages. Price 25c. Mailed free with a single order for vegetable seeds, flower seeds, plants and bulbs amounting to \$2 or more if you mention it on the order when sent in.

PLEASE USE THIS SHEET FOR YOUR PLANT ORDER

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Please write your name and address distinctly and in full with each order. Old customers who have moved since last season will please state their former address also. Read "Suggestions to Customers" on first page of Catalog. Extra ordersheets and return envelopes on application.

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Name.....

WRITE PLAINLY

Post Office.....

County..... State.....

P. O. Box or St..... R. F. D. No.....

Express Town (If different from P. O.).....

Date 191.....

Amount Enclosed

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NOTICE—Our terms are cash with order which may be sent by draft, money order or registered letter. Postage stamps may be sent if more convenient. Shipping C. O. D. adds an unnecessary expense.

We Prepay the Postage on all seeds, plants and bulbs, except where noted. Field seeds, potatoes and other goods, except as noted, we ship by freight or express, purchaser paying charges.

QUANTITY OR NUMBER	NAMES OF PLANTS, BULBS AND NURSERY STOCK WANTED <small>Please write your seed orders on the other order sheet</small>	PRICE	
		Dollars	Cents

Amount carried forward,

QUANTITY OR NUMBER	NAME OF ARTICLES WANTED	PRICE	
		Dollars	Cents
	<i>Amount brought forward.</i>		

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The Farm Journal is always \$1.00 for five years; the publishers do not want and generally won't take shorter subscriptions. But we believe that to read this wide-awake farm and household paper is the greatest benefit to our friends and patrons, and so indirectly to us, so we have persuaded the publishers to give us, for you, this

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NOT GOOD FOR RENEWALS; SEE OTHER SIDE

THE FARM SEED FUTURE

MARKET LETTER

The Grass Seed market at this time shows an upward tendency in all lines. The principal reason apparently, is because of the short crop harvested this fall. The cessation of the war has not brought lower prices, but has resulted in some export trade. In order to protect American planters from shortage and extreme prices the government prohibited the exportation of red clover. If timothy and other grasses continue to go abroad higher prices will no doubt prevail. We are of the opinion that prices will not go lower. The world must be fed and grains of all kinds will remain at high prices. In the final analysis the prices for grain control largely the prices for all products.

It is possible that supplies may be furnished by South America in some amount, but we do not believe it will be of sufficient volume to greatly influence the world market. Even in ordinary times, it is not practical to forecast the range of prices on seeds. Therefore, it is doubly difficult at this time when world conditions are as at present. It is our opinion, however, that there is no chance for lower prices on most items, because seeds are really cheap in comparison with other merchandise.

RED CLOVER

Red Clover at the present time is higher in price than we have ever known it to be. The government reports indicate about 60% of last year's crop with but very little carried over. In reality, there is only about half as much seed available for 1919 as was used in 1918. Dealers generally believe that because of the shortage, seed will not sell below \$25.00 per bushel at any time, while at present it cannot be marketed at that price but sells anywhere from \$27.00 to \$30.00 per bushel. Whether or not the farmer can afford to use it at these prices, each one must determine for himself. We can supply you with Red Clover at prevailing market price and the quality is fully equal to any season. In Iowa, the Clover Seed crop was very good indeed, both as to quality and to quantity, but of course the price is determined by the world markets. You can order our usual brands with full confidence that you will get as high quality as in past seasons. Our prices are not higher than market conditions warrant.

ALSIKE

Alsike Clover is a cheap item in comparison with Red Clover at this time. It is not only lower in price per bushel, but it requires only about half as much seed per acre for the planting. At present values, it would cost about \$5.00 per acre to seed to Common Red Clover, but you can seed to Alsike for about \$2.50 per acre. We think quite highly of Alsike and are recommending to our friends that they use it this year in preference to the Common Red variety wherever it is possible.

ALSIKE AND TIMOTHY MIXED

We are this year urging the sowing of the Alsike and Timothy mixture in preference to Red Clover and Timothy where meadow or Grass crop is wanted. There is no better quality of hay than mixed Timothy and Alsike if the proportions are right. We are making the mixture ourselves using twenty-five pounds of Alsike and seventy-five pounds of Timothy so that the proportion may be the best for hay purposes. By using twelve pounds of this mixture per acre, the cost of seeding is only about \$2.00 per acre and this is very reasonable when the results are considered.

TIMOTHY

The crop of Timothy Seed in Iowa this year was only about 60% of normal. There was, however, quite a large quantity of seed carried over in the large eastern markets. It is only this carried over seed that has kept values down to our present figure. Should Europe demand any considerable part of the Timothy Seed supply in this country, prices are no doubt

going to be much higher because we have seen values greater than at present in ordinary times. In fact, Timothy is not excessive in cost at this time and knowing the conditions, we feel assured that prices in spring will be higher than at the present moment. In our judgment, it will be wise for prospective planters to purchase their supply of Timothy Seed as soon as they may.

SWEET CLOVER

The price of Sweet Clover at this time is quite attractive. There appears to be a fair crop of this seed, but the demand for this item has continued to grow for many years and with the present high price of Red Clover and other varieties, the Sweet Clover offers an excellent opportunity to those who are seeking a crop of hay and a soil builder for this spring's sowing. You can use the Sweet Clover in any way you would the Common Red, with the exception, that you can hardly expect to get two crops of hay next year, and it will not do in mixture with Timothy. It is possible to get two crops of hay the second season if properly handled. Note the article on Sweet Clover in the catalogue. With the scarifying process perfected as it is, you need not sow more than ten or twelve pounds of Sweet Clover Seed per acre. This will make a good stand at a reasonable cost and in our opinion will give better results as a soil builder than would the Common Red variety. If you have a place for Sweet Clover, we recommend it this season as being economical.

ALFALFA

Alfalfa Seed is a bargain at this time. The quality is good this year, the supply is plentiful and it is the cheapest clover in the list. There is no question about the value of Alfalfa as a meadow or pasture, and the only thing you have to consider is soil and location. If you have a place for Alfalfa now is the time to use it. It will give you good returns the second year and it will be no trouble to secure a stand. Take advantage of present prices on hay and because clover and timothy seeds are so high in price hay is sure to be a profitable crop in 1920. In our opinion Alfalfa is certain to pay well planted this spring, and the time to purchase seed is now.

SEED GRAIN

Prices for seed grain, including corn, are a little cheaper than last season. Our stocks of wheat, oats, barley, etc., are of our usual high quality, while our seed corn is the best for several years. We have grown most of our seed corn here at Des Moines and Altoona, but we have stocks of the early varieties grown in South Dakota for the benefit of our Northern friends. The price is the same and you are to designate in your corn orders which you prefer. There is no question either regarding purity or quality this year, and the prices are reasonable. We want your orders for these items as we promise to give you satisfaction. Any corn you buy from us can be returned to us if it does not suit you.

FORAGE CROPS

It is too early in the season yet to determine about the values of Sudan Grass, Cane and Millet, Rape and other forage plants. The indications are however, that values will not be excessive and that stocks will be fairly plentiful. We are not certain at this time whether we shall be able to procure Rape Seed from England or whether we will have to depend upon the Japanese crop as we did last spring. We prefer the English Seed if obtainable and will have it for our patrons if possible.

At the present time you can afford to buy the forage seeds because the prices are lower than for two or three years and you will not be able to buy cheaper in our judgment. We can, however, furnish you Seed of all of the items mentioned on the reverse side of this price list and will be glad indeed to have your orders for whatever is required.

BANNER VERBENA COLLECTION

**Red, White and Blue, Mammoth Flowers, Full Packets,
Price, 50 Cents, Postpaid**

Here are the national colors, the hues of Old Glory, in splendid large flowers, showy and lasting in the garden or for bouquets. Verbenas are easy to grow, bloom very freely, are fragrant and beautiful and hence are popular. You will be pleased with results if you buy this collection.

Defiance Giant Red The bright scarlet color, strong, vigorous growth with blossoms of great size. The best red in various shades of this color. Bright and beautiful. Per packet 15c.

Mammoth Snow White The purity of these flowers is the basis of their great beauty. Have the same vigor of growth and large sized flowers as the Defiance Red and therefore harmonize with it. Per packet 10c.

Superb Large Blue This shade is the dark blue necessary to complete the trio of glorious colors. Will grow just as large and strong as the varieties above and will prove its value by its freedom of bloom. Per packet 15c.

One Packet of Each of the Above for Only 30 Cents

BANNER VERBENA PLANT COLLECTION

For those who do not wish to grow from seed, we offer a collection of plants which will fill a bed five by eight feet, grown from the above seed, and we offer you as special

Six plants	Defiance Giant Red Verbena, red.....	30c
Six plants	Mammoth Snow White Verbena, white.....	30c
Six plants	Superb Large Blue Verbena, blue.....	30c

A Dozen and a Half Choice Plants in Banner Colors, Postpaid, for Only 75 Cents.



New Century
Mammoth Verbena

OUR PREMIER BARGAIN THREE SEED COLLECTIONS ON THIS PAGE, POSTPAID ONLY \$1.75

ADDRESS IOWA SEED CO., DES MOINES, IOWA

In ordering these three collections, just write "Premier Bargain" on the order sheet and mark \$1.75 in column. We will understand

THE BACK-YARD VEGETABLE COLLECTION

Price, Only \$1.25

Made up to supply the man who has only a small plot for garden purposes. The varieties offered in this collection are of standard, proven sorts, and are the kinds that have become most popular with our customers because of results and quality. The quantities are sufficient to meet the needs of a small family and should produce enough with ordinary care and culture to save the planter at least a hundred dollars in living expense and at the same time afford variation for the family table. For detailed description of the varieties included, see the body of the catalogue.

HERE IS WHAT IS INCLUDED IN THE COLLECTION:

	Value	Value	
1 pkt. Golden Wax Dwarf Beans.....	10c	1 lb. of Onion Sets.....	35c
1 pkt. Stringless Green Pod Dwarf Beans	10c	1 pkt. Golden Globe Onion..	5c
1 pkt. Old Homestead Cornfield or Pole Beans	10c	1/4 lb. Nott's Excelsior Peas	15c
1 pkt. Crimson Globe Beet.....	10c	1 pkt. Guernsey Parsnips...	5c
1 pkt. Oxheart Carrot.....	5c	1 pkt. Sparkler Radish	5c
1 pkt. Golden Bantam Sweet Corn.....	10c	1 pkt. Icicle Radish	5c
1 pkt. Curled Simpson Lettuce.....	5c	1 pkt. Crimson Giant Radish	5c
1 pkt. May King Lettuce.....	5c	1 pkt. Snowball Turnip....	10c
		1 pkt. Superlative Tomato..	10c

The entire collection as listed, postpaid in the U. S., for \$1.25

NATIONAL BANNER ASTER COLLECTION

Price, 30 Cents, Postpaid

The beautiful red, white and blue of our banner in the branching type of asters, selected from the best plants among the choicest strains. Really the highest quality among asters.

Crimson King The favorite aster among the long list of varieties. Popular because of its shining, brilliant color, large, perfect flowers, long stems, and vigorous habit. A bright red flower is always useful for any purpose and asters are among the most desirable blossoms. Pkt. 15c.

Snow Drift As its name indicates this is a pure white flower. It is an almost perfect type of peony flowered aster, and in robust growth and vigor it surpasses any of the other white asters. Selected for this collection because of excellence and to supply the necessary white for bouquets and decorative effects. Per packet 15c.

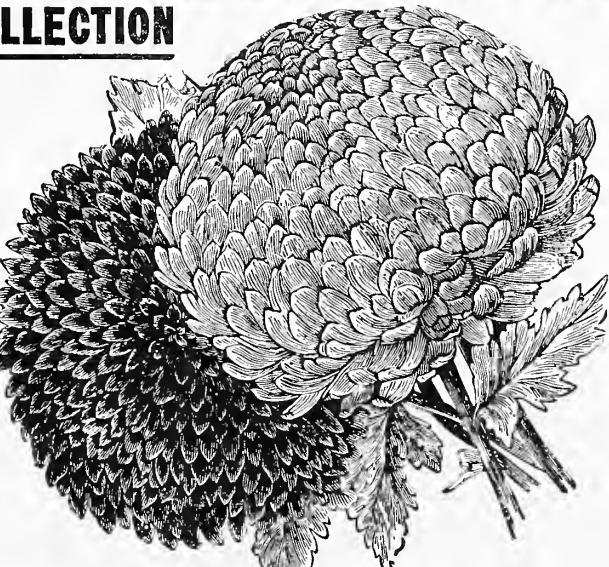
Royal Purple This is a unique shade, and one not found generally among flowers. A few blooms of this royal flower will add greatly to the beauty of mixed bouquets or decorative vases, and in habit, form and vigor it is the equal of the other varieties in this collection. Pkt. 10c.

One Packet of Each of the Above for Only 30 Cents

THE BANNER ASTER PLANT COLLECTION

One dozen Crimson King, one dozen Snowdrift and one dozen Royal Purple—enough for a beautiful bed—worth at catalogue value, \$1.05.

Three Dozen Choice Plants for Only 75 Cents, Postpaid





BANNER VERBENA COLLECTION PRICE **30¢**

SEE INSIDE COVER



BACK YARD VEGETABLE COLLECTION

PRICE **\$1.25**
SEE INSIDE COVER



BANNER ASTER COLLECTION PRICE **30¢**

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